

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 26, 2005, 04:17:52 ; Search time 129 Seconds  
(without alignments)  
4388.773 Million cell updates/sec

Title: US-09-873-224B-147  
Perfect score: 346  
Sequence: 1 atgagcacacttctaacc.....aaatgaccccgcgaggca 346

Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 1202784 seqs, 818138359 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents NA.\*  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	296	85.5	345	4	US-09-878-281A-147
2	260	75.1	309	3	US-08-836-075A-49
3	43	12.4	378	4	US-08-931-855B-13
4	43	12.4	549	3	US-08-441-971-60
5	43	12.4	549	3	US-08-221-653-60
6	43	12.4	549	3	US-08-442-144A-60
7	43	12.4	549	3	US-08-441-970-60
8	43	12.4	573	2	US-08-290-665A-141
9	43	12.4	549	3	US-09-194-949A-5
10	43	12.4	573	5	PCT-US95-10398-141
11	43	12.4	831	3	US-08-836-075A-65
12	40	11.6	573	2	US-08-290-665A-142
13	40	11.6	573	5	PCT-US95-10398-142
14	38	11.0	573	2	US-08-290-665A-136
15	38	11.0	573	5	PCT-US95-10398-136
16	35	10.1	573	2	US-08-290-665A-137
17	35	10.1	573	2	US-08-290-665A-138
18	35	10.1	573	2	US-08-290-665A-139
19	35	10.1	573	5	PCT-US95-10398-137
20	35	10.1	573	5	PCT-US95-10398-138
21	35	10.1	573	5	PCT-US95-10398-139
22	35	10.1	803	1	US-08-157-235-1
23	35	10.1	803	1	US-08-157-235-2
24	35	10.1	803	1	US-08-157-235-3
25	35	10.1	803	1	US-08-157-235-4
26	34	9.8	573	2	US-08-290-665A-135
27	34	9.8	573	5	PCT-US95-10398-135

28	34	9.8	803	1	US-08-157-235-5	Sequence 5, Appli
29	31	9.0	183	1	US-07-681-703B-21	Sequence 21, Appl
30	31	9.0	183	2	US-08-407-410B-21	Sequence 21, Appl
31	31	9.0	183	2	US-08-485-500-21	Sequence 21, Appl
32	31	9.0	183	5	PCT-US91-02370-21	Sequence 21, Appl
33	31	9.0	270	1	US-07-681-703B-23	Sequence 23, Appl
34	31	9.0	270	2	US-08-407-410B-23	Sequence 23, Appl
35	31	9.0	270	2	US-08-485-500-23	Sequence 23, Appl
36	31	9.0	270	5	PCT-US91-02370-23	Sequence 23, Appl
37	31	9.0	273	1	US-07-681-703B-19	Sequence 19, Appl
38	31	9.0	273	2	US-08-407-410B-19	Sequence 19, Appl
39	31	9.0	273	2	US-08-485-500-19	Sequence 19, Appl
40	31	9.0	273	5	PCT-US91-02370-19	Sequence 19, Appl
41	31	9.0	300	4	US-10-071-867-16	Sequence 16, Appl
42	31	9.0	306	2	US-08-537-811-35	Sequence 35, Appl
43	31	9.0	327	3	US-08-836-075A-1	Sequence 1, Appli
44	31	9.0	355	3	US-08-444-818-104	Sequence 104, App
45	31	9.0	355	3	US-08-444-818-106	Sequence 106, App

ALIGNMENTS

RESULT 1

US-09-878-281A-147  
; Sequence 147, Application US/09878281A  
; Patent No. 6762024

; GENERAL INFORMATION:

; APPLICANT: Imogenetics N.V.

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph

; FILE REFERENCE: 35

; CURRENT APPLICATION NUMBER: US/09/878,281A

; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 147

; LENGTH: 345

; TYPE: DNA

; ORGANISM: hepatitis C virus

; US-09-878-281A-147

Query Match 85.5%; Score 296; DB 4; Length 345;

Best Local Similarity 100.0%; Pred. No. 7.6e-143;

Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	51	CCGGCCACAGCAGCGTTAAGTTCCACAGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCT	110
DB	50	CCGGCCACAGCAGCGTTAAGTTCCACAGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCT	109
QY	111	ACCACGACAGGCGGCCCGCAGTTGGGTGTCGTGCAAGTCCGCAAGACTTCCGAGCGGTGCGCA	170
DB	110	ACCACGACAGGCGGCCCGCAGTTGGGTGTCGTGCAAGTCCGCAAGACTTCCGAGCGGTGCGCA	169
QY	171	ACCTGCGAGTAGGCGGCCAACCCATCCCGAGGCGCGCGCAACCCGAGGCGGAGTCTCTGGGC	230
DB	170	ACCTGCGAGTAGGCGGCCAACCCATCCCGAGGCGCGCGCAACCCGAGGCGGAGTCTCTGGGC	229
QY	231	TCAGCCCGGGTACCCCTTGGCCCTATATGGGAATGAGGGCTCCGGGTGGCAGGGTGGCT	290
DB	230	TCAGCCCGGGTACCCCTTGGCCCTATATGGGAATGAGGGCTCCGGGTGGCAGGGTGGCT	289
QY	291	CCTGTCGCCGCGGCGCTCTCGCCCGTCTCGGGGCCCAATGACCCCGCGCGCAGCA 346	
DB	290	CCTGTCGCCGCGGCGCTCTCGCCCGTCTCGGGGCCCAATGACCCCGCGCGCAGCA 345	

RESULT 2

US-08-836-075A-49

; Sequence 49, Application US/08836075A

; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GBERT

APPLICANT: STUYVER, LIEVEN  
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
TITLE OF INVENTION: AGENTS  
NUMBER OF SEQUENCES: 207  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ARNOLD, WHITE & DURKEE  
STREET: P. O. BOX 4433  
CITY: HOUSTON  
STATE: TEXAS  
COUNTRY: USA  
ZIP: 77210-4433

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word 6.0 / ASCII text output  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/836,075A  
FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/EP95/04155  
FILING DATE: 23 Oct 1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: EP 94870166.9  
FILING DATE: 21 Oct 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: EP 95870076.7  
FILING DATE: 28 Jun 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: KAMMERER, PATRICIA A.  
REGISTRATION NUMBER: 29,775  
REFERENCE/DOCKET NUMBER: INNS:004  
INFORMATION FOR SEQ ID NO: 49:

SEQUENCE CHARACTERISTICS:  
LENGTH: 309 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-836-075A-49

Query Match 75.1%; Score 260; DB 3; Length 309;  
Best Local Similarity 100.0%; Pred. No. 2.8e-124;  
Matches 260; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	51	CCGCCACAGGACGTTAAGTTCCAGCGCGGTCAGATCGTTGGTGAGTTTACGTGCT	110
Db	50	CCGCCACAGGACGTTAAGTTCCAGCGCGGTCAGATCGTTGGTGAGTTTACGTGCT	109
Qy	111	ACCAACGAGCGGCCCCCAGTTGGTGTCGTCAGTGGCGCAAGACTTCCGAGCGGTGCGCA	170
Db	110	ACCAACGAGCGGCCCCCAGTTGGTGTCGTCAGTGGCGCAAGACTTCCGAGCGGTGCGCA	169
Qy	171	ACCTCGCAGTAGGCGCCACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGC	230
Db	170	ACCTCGCAGTAGGCGCCACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGC	229
Qy	231	TCAGCCCGGGTACCTTGGCCCTTATGGGAATGAGGGCTGCGGGTGGGCGAGGTGGCT	290
Db	230	TCAGCCCGGGTACCTTGGCCCTTATGGGAATGAGGGCTGCGGGTGGGCGAGGTGGCT	289
Qy	291	CCTGTCCCGCGCGGCTCTC	310
Db	290	CCTGTCCCGCGCGGCTCTC	309

## RESULT 3

US-08-931-855B-13  
; Sequence 13, Application US/08931855B  
; Patent No. 6692751

GENERAL INFORMATION:  
APPLICANT: ZEBEDEE, SUZANNE  
APPLICANT: INCHAUSPE, GENEVIEVE  
APPLICANT: NASOFF, MARC S.  
APPLICANT: PRINCE, ALFRED M.  
APPLICANT: HELTING, TORSTEN B.  
APPLICANT: DEVIN, HAKAN  
APPLICANT: NUNN, MICHAEL F.  
TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING  
TITLE OF INVENTION: RECOMBINANT VIRAL ANTIGENS  
NUMBER OF SEQUENCES: 29  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: James P. Hillman  
STREET: 45010 Pawnee Drive  
CITY: Fremont  
STATE: CA  
COUNTRY: USA  
ZIP: 94539

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy Disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 5.0 Dos Txt  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/931,855B  
FILING DATE: Sep 16, 1997  
CLASSIFICATION: 435  
CLASSIFICATION: 435  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US08/563,733  
FILING DATE: 8-NOV-1995

APPLICATION NUMBER: US08/049,531  
FILING DATE: 20-APR-1993  
APPLICATION NUMBER: US07/344,237  
FILING DATE: 26-APR-1989  
APPLICATION NUMBER: US07/191,229  
FILING DATE: 06-MAY-1988  
APPLICATION NUMBER: US07/206,499  
FILING DATE: 13-JUN-1988  
APPLICATION NUMBER: US07/258,016  
FILING DATE: 14-OCT-1988  
APPLICATION NUMBER: US08/272,271  
FILING DATE: 8-JUL-1994  
APPLICATION NUMBER: US07/616,369  
FILING DATE: 21-NOV-1990  
APPLICATION NUMBER: US07/573,643  
FILING DATE: 27-AUG-1990

ATTORNEY/AGENT INFORMATION:  
NAME: James P. Hillman Esq.  
REGISTRATION NUMBER: 29748  
REFERENCE/DOCKET NUMBER: 55467/69  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 651 3991  
TELEFAX: (510) 651 5991  
INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:  
LENGTH: 378 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Genomic DNA  
HYPOTHETICAL: no  
ANTI-SENSE: no  
FEATURE:

NAME/KEY: CDS  
LOCATION: 16-375  
US-08-931-855B-13

Query Match 12.4%; Score 43; DB 4; Length 378;  
Best Local Similarity 100.0%; Pred. No. 2.6e-12;

Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254  
|||||

Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 269  
|||||

## RESULT 4

US-08-441-971-60  
; Sequence 60, Application US/08441971  
; Patent No. 6071693  
; GENERAL INFORMATION:  
; APPLICANT: Tai-An Cha  
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR  
; DIAGNOSTICS AND THERAPEUTICS  
; NUMBER OF SEQUENCES: 147  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.  
; STREET: 600 Atlantic Avenue  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 5.25 inch  
; COMPUTER: IBM compatible  
; OPERATING SYSTEM: MS-DOS Version 3.3  
; SOFTWARE: WordPerfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/441,971  
; FILING DATE: 16-MAY-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/221,653  
; FILING DATE:  
; FILING DATE: US/07/881,528  
; FILING DATE:  
; APPLICATION NUMBER: 07/697,326  
; FILING DATE: 8 May 1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Janiuk, Anthony J.  
; REGISTRATION NUMBER: 29,809  
; REFERENCE/DOCKET NUMBER: C0772/7000  
; TELEPHONE: (617) 720-3500  
; TELEFAX: (617) 720-2441  
; TELEX: EZEKIEL  
; INFORMATION FOR SEQ ID NO: 60:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 549 nucleotides  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
; ORIGINAL SOURCE:  
; INDIVIDUAL ISOLATE: nac5  
US-08-441-971-60

Query Match 12.4%; Score 43; DB 3; Length 549;  
Best Local Similarity 100.0%; Pred. No. 2.6e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254  
|||||

Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254  
|||||

## RESULT 5

US-08-221-653-60  
; Sequence 60, Application US/08221653  
; Patent No. 6190864  
; GENERAL INFORMATION:  
; APPLICANT: Tai-An Cha

; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR  
; DIAGNOSTICS AND THERAPEUTICS  
; NUMBER OF SEQUENCES: 147  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.  
; STREET: 600 Atlantic Avenue  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 5.25 inch  
; COMPUTER: IBM compatible  
; OPERATING SYSTEM: MS-DOS Version 3.3  
; SOFTWARE: WordPerfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/221,653  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/881,528  
; FILING DATE:  
; APPLICATION NUMBER: 07/697,326  
; FILING DATE: 8 May 1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Janiuk, Anthony J.  
; REGISTRATION NUMBER: 29,809  
; REFERENCE/DOCKET NUMBER: C0772/7000  
; TELEPHONE: (617) 720-3500  
; TELEFAX: (617) 720-2441  
; TELEX: EZEKIEL  
; INFORMATION FOR SEQ ID NO: 60:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 549 nucleotides  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
; ORIGINAL SOURCE:  
; INDIVIDUAL ISOLATE: nac5  
US-08-221-653-60

Query Match 12.4%; Score 43; DB 3; Length 549;  
Best Local Similarity 100.0%; Pred. No. 2.6e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254  
|||||

Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254  
|||||

## RESULT 6

US-08-442-144A-60  
; Sequence 60, Application US/08442144A  
; Patent No. 6214583  
; GENERAL INFORMATION:  
; APPLICANT: Tai-An Cha  
; APPLICANT: Eileen Beall  
; APPLICANT: Bruce Irvine  
; APPLICANT: Janice Kolberg  
; APPLICANT: Michael S. Urdea  
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR  
; DIAGNOSTICS AND THERAPEUTICS  
; NUMBER OF SEQUENCES: 148  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows NT  
SOFTWARE: Microsoft Word 97  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/442,144A  
FILING DATE: MAY 16, 1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/221,653  
FILING DATE: APRIL 1, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Doreen Yatko Trujillo  
REGISTRATION NUMBER: 35,719  
REFERENCE/DOCKET NUMBER: CHIR-0121  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 215-568-3100  
TELEFAX: 215-568-3439  
TELEX:  
INFORMATION FOR SEQ ID NO: 60:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 549 Nucleotides  
TYPE: Nucleic Acid  
STRANDEDNESS: Single  
TOPOLOGY: Linear  
MOLECULE TYPE: DNA  
ORIGINAL SOURCE: nacs  
INDIVIDUAL ISOLATE: nacs

Query Match 12.4%; Score 43; DB 3; Length 549;  
Best Local Similarity 100.0%; Pred. No. 2.6e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 212 CCGAGGCGAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCCCCCT 254  
Db 212 CCGAGGCGAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCCCCCT 254

RESULT 7  
US-08-441-970-60  
Sequence 60, Application US/08441970  
Patent No. 6297370  
GENERAL INFORMATION:  
APPLICANT: Tai-An Cha  
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR  
DIAGNOSTICS AND THERAPEUTICS  
NUMBER OF SEQUENCES: 147  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.  
STREET: 600 Atlantic Avenue  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 5.25 inch  
COMPUTER: IBM compatible  
OPERATING SYSTEM: MS-DOS Version 3.3  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/441,970  
FILING DATE: 16-MAY-1995  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/881,528  
FILING DATE: 08-MAY-1992  
APPLICATION NUMBER: 07/697,326  
FILING DATE: 8 May 1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Janiuk, Anthony J.  
REGISTRATION NUMBER: 29,809  
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 720-3500  
TELEFAX: (617) 720-2441  
TELEX: EZEKIEL  
INFORMATION FOR SEQ ID NO: 60:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 549 nucleotides  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
ORIGINAL SOURCE: nacs  
INDIVIDUAL ISOLATE: nacs

Query Match 12.4%; Score 43; DB 3; Length 549;  
Best Local Similarity 100.0%; Pred. No. 2.6e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGCGAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCCCCCT 254  
Db 212 CCGAGGCGAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCCCCCT 254

## RESULT 8

US-08-290-665A-141  
Sequence 141, Application US/08290665A  
Patent No. 5882852  
GENERAL INFORMATION:  
APPLICANT: BURK, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 141:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ORGANISM: hom sapiens  
INDIVIDUAL ISOLATE: Z1  
US-08-290-665A-141

Query Match 12.4%; Score 43; DB 2; Length 573;

Best Local Similarity 100.0%; Pred. No. 2.6e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254  
|||||  
Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254

## RESULT 9

US-09-194-949A-5  
; Sequence 5, Application US/09194949A  
; Patent No. 6653125  
; GENERAL INFORMATION:  
; APPLICANT: Merck & Co., Inc.  
; APPLICANT: Donnelly, John J.  
; APPLICANT: Fu, Tong-Ming  
; APPLICANT: Liu, Margaret A.  
; APPLICANT: Shiver, John W.  
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES  
; FILE REFERENCE: 19732YP  
; CURRENT APPLICATION NUMBER: US/09/194,949A  
; PRIOR FILING DATE: 2000-02-17  
; PRIOR APPLICATION NUMBER: PCT/US97/09884  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/020,494  
; PRIOR FILING DATE: 1996-06-11  
; PRIOR APPLICATION NUMBER: 60/033,534  
; PRIOR FILING DATE: 1996-12-20  
; PRIOR APPLICATION NUMBER: 08/965,823  
; PRIOR FILING DATE: 1997-05-30  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 573  
; TYPE: DNA  
; ORGANISM: Hepatitis C Virus  
US-09-194-949A-5

Query Match 12.4%; Score 43; DB 4; Length 573;  
Best Local Similarity 100.0%; Pred. No. 2.6e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254  
|||||  
Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254

## RESULT 10

PCT-US95-10398-141  
; Sequence 141, Application PC/TUS9510398  
; GENERAL INFORMATION:  
; APPLICANT: BURKH, J., MILLER, R.H. AND  
; APPLICANT: PURCELL, R.H.  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FTMNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/10398

FILING DATE: 15-AUG-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/086,428  
FILING DATE: 29 JUNE 1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/290/665  
FILING DATE: 15 AUGUST 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 141:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ORIGINAL SOURCE:  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: Z1  
PCT-US95-10398-141

Query Match 12.4%; Score 43; DB 5; Length 573;  
Best Local Similarity 100.0%; Pred. No. 2.6e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254  
|||||  
Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254

## RESULT 11

US-08-836-075A-65  
; Sequence 65, Application US/08836075A  
; Patent No. 6180768  
; GENERAL INFORMATION:  
; APPLICANT: MAERTENS, GEERT  
; APPLICANT: STUYVER, LIEVEN  
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
; TITLE OF INVENTION: AGENTS  
; NUMBER OF SEQUENCES: 207  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ARNOLD, WHITE & DURKEE  
; STREET: P.O. BOX 4433  
; CITY: HOUSTON  
; STATE: TEXAS  
; COUNTRY: USA  
; ZIP: 77210-4433  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Microsoft Word 6.0 / ASCII text output  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/836,075A  
; FILING DATE: 21 Apr 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/EP95/04155  
; FILING DATE: 23 Oct 1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: EP 94870166.9  
; FILING DATE: 21 Oct 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: EP 95870076.7  
; FILING DATE: 28 Jun 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775  
REFERENCE/DOCKET NUMBER: INNS:004  
INFORMATION FOR SEQ ID NO: 65:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 831 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-836-075A-65

Query Match 12.4%; Score 43; DB 3; Length 831;  
Best Local Similarity 100.0%; Pred. No. 2.7e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCCCT 254  
Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCCCT 269

## RESULT 12

US-08-290-665A-142  
Sequence 142, Application US/08290665A  
Patent No. 5882852

GENERAL INFORMATION:  
APPLICANT: BUKH, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154

COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 142:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ORIGINAL SOURCE:  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: Z5

Query Match 11.6%; Score 40; DB 2; Length 573;  
Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCC 251  
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCC 251

## RESULT 13

PCT-US95-10398-142  
Sequence 142, Application PC/TUS9510398  
GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154

COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/10398  
FILING DATE: 15-AUG-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/086,428  
FILING DATE: 29 JUNE 1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/290/665  
FILING DATE: 15 AUGUST 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 142:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ORIGINAL SOURCE:  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: Z5

Query Match 11.6%; Score 40; DB 5; Length 573;  
Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCC 251  
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCC 251

## RESULT 14

US-08-290-665A-136  
Sequence 136, Application US/08290665A  
Patent No. 5882852  
GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154

COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 136:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ORIGINAL SOURCE:  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: S52  
US-08-290-665A-136

Query Match 11.0%; Score 38; DB 2; Length 573;  
Best Local Similarity 100.0%; Pred. No. 1e-09;  
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 262 AATGAGGGCTGCGGGTGGCGCAGGGTGGCTCCTGTCCCC 299  
Db 262 AATGAGGGCTGCGGGTGGCGCAGGGTGGCTCCTGTCCCC 299

RESULT 15  
PCT-US95-10398-136  
Sequence 136, Application PC/TUS9510398  
GENERAL INFORMATION:  
APPLICANT: BUKH, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/10398  
FILING DATE: 15-AUG-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/086,428  
FILING DATE: 29 JUNE 1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/290/665  
FILING DATE: 15 AUGUST 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 136:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ORIGINAL SOURCE:  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: S52  
PCT-US95-10398-136

Query Match 11.0%; Score 38; DB 5; Length 573;  
Best Local Similarity 100.0%; Pred. No. 1e-09;  
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 262 AATGAGGGCTGCGGGTGGCGCAGGGTGGCTCCTGTCCCC 299  
Db 262 AATGAGGGCTGCGGGTGGCGCAGGGTGGCTCCTGTCCCC 299

Search completed: July 26, 2005, 06:31:09  
Job time : 130 secs

**THIS PAGE BLANK (USPTO)**



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 26, 2005, 05:53:13 ; Search time 452 Seconds  
(without alignments)  
4949.851 Million cell updates/sec

Title: US-09-873-224b-147

Perfect score: 346

Sequence: 1 atgagcacactcttaaac.....aaatgaccccggcagga 346

Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Searched: 7277826 seqs, 3233139505 residues

Word size : 0

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA:\*

1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq.\*  
2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq.\*  
3: /cgn2\_6/ptodata/2/pubpna/US05\_NEW\_PUB.seq.\*  
4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq.\*  
5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*  
6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq.\*  
7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*  
8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq.\*  
9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*  
11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*  
12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*  
13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*  
14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*  
15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*  
16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq.\*  
17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq.\*  
18: /cgn2\_6/ptodata/2/pubpna/US10F\_PUBCOMB.seq.\*  
19: /cgn2\_6/ptodata/2/pubpna/US10G\_PUBCOMB.seq.\*  
20: /cgn2\_6/ptodata/2/pubpna/US10H\_PUBCOMB.seq.\*  
21: /cgn2\_6/ptodata/2/pubpna/US10I\_PUBCOMB.seq.\*  
22: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*  
23: /cgn2\_6/ptodata/2/pubpna/US11A\_PUBCOMB.seq.\*  
24: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq.\*  
25: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
26: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	296	85.5	345	10	US-09-873-224-147
2	296	85.5	346	10	Sequence 147, Appl
3	296	85.5	346	10	Sequence 147, Appl
4	260	75.1	309	9	US-09-878-281-147
5	43	12.4	378	20	US-10-677-956-13
6	43	12.4	573	10	US-09-194-949-5
7	43	12.4	573	21	US-10-664-391-5

Sequence 65, Appl  
Sequence 39, Appl  
Sequence 41, Appl  
Sequence 16, Appl  
Sequence 114, Appl  
Sequence 1, Appl  
Sequence 115, Appl  
Sequence 3, Appl  
Sequence 7, Appl  
Sequence 9, Appl  
Sequence 5, Appl  
Sequence 15, Appl  
Sequence 11, Appl  
Sequence 12, Appl  
Sequence 13, Appl  
Sequence 14, Appl  
Sequence 15, Appl  
Sequence 16, Appl  
Sequence 7, Appl  
Sequence 2, Appl  
Sequence 19, Appl  
Sequence 2, Appl  
Sequence 9, Appl  
Sequence 1, Appl  
Sequence 57, Appl  
Sequence 59, Appl  
Sequence 53, Appl  
Sequence 55, Appl  
Sequence 11, Appl  
Sequence 59, Appl  
Sequence 61, Appl  
Sequence 40, Appl  
Sequence 55, Appl  
Sequence 57, Appl  
Sequence 38, Appl  
Sequence 8, Appl  
Sequence 7, Appl  
Sequence 49, Appl

8 43 12.4 831 9 US-09-851-138-65  
9 31 9.0 152 9 US-09-921-397-39  
10 31 9.0 234 9 US-09-921-397-41  
11 31 9.0 300 16 US-10-071-867-16  
12 31 9.0 310 9 US-09-921-397-114  
13 31 9.0 327 9 US-09-851-138-1  
14 31 9.0 339 9 US-09-921-397-115  
15 31 9.0 360 9 US-09-306-780-3  
16 31 9.0 378 20 US-10-677-956-7  
17 31 9.0 378 20 US-10-677-956-9  
18 31 9.0 450 9 US-09-306-780-5  
19 31 9.0 480 16 US-10-071-867-15  
20 31 9.0 480 21 US-10-664-038-11  
21 31 9.0 480 21 US-10-664-038-12  
22 31 9.0 480 21 US-10-664-038-13  
23 31 9.0 480 21 US-10-664-038-14  
24 31 9.0 480 21 US-10-664-038-15  
25 31 9.0 480 21 US-10-664-038-16  
26 31 9.0 483 9 US-09-306-780-7  
27 31 9.0 499 21 US-10-664-038-2  
28 31 9.0 528 9 US-09-306-780-19  
29 31 9.0 540 17 US-10-150-283-2  
30 31 9.0 573 9 US-09-306-780-9  
31 31 9.0 595 19 US-10-601-020-1  
32 31 9.0 708 17 US-10-365-620-57  
33 31 9.0 708 21 US-10-912-969-59  
34 31 9.0 750 17 US-10-365-620-53  
35 31 9.0 750 21 US-10-912-969-55  
36 31 9.0 843 9 US-09-306-780-11  
37 31 9.0 1380 17 US-10-365-620-59  
38 31 9.0 1380 21 US-10-912-969-61  
39 31 9.0 1380 21 US-10-913-171-40  
40 31 9.0 1422 17 US-10-365-620-55  
41 31 9.0 1422 21 US-10-912-969-57  
42 31 9.0 1422 21 US-10-913-171-38  
43 31 9.0 2025 17 US-10-387-336-8  
44 31 9.0 2031 17 US-10-387-336-7  
45 31 9.0 2433 9 US-09-973-025-49

#### ALIGNMENTS

#### RESULT 1

US-09-873-224-147  
; Sequence 147, Application US/09873224  
; Publication No. US20030064360A1  
; GENERAL INFORMATION:  
; APPLICANT: <Unknown>  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; CORRESPONDENCE ADDRESS:  
; STREET: Industriepark Zwijnaarde 7, box 4  
; CITY: Ghent  
; COUNTRY: Belgium  
; ZIP: B-9052  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/873,224  
; FILING DATE: 05-Jun-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Innogenetics sa.  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 00 32 9 241 07 11

```
;
; TELEFAX: 00 32 9 241 07 99
;
; INFORMATION FOR SEQ ID NO: 147:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 345 base pairs
;     TYPE: nucleic acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;   MOLECULE TYPE: cDNA
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 1..345
;   FEATURE:
;     NAME/KEY: mat_peptide
;     LOCATION: 1..342
;   SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147

Query Match      85.5%; Score 296; DB 10; Length 345;
Best Local Similarity 100.0%; Pred. No. 1.2e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 51 CCGGCCACAGACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGAGTTTACGTGCT 110
Db 50 CCGGCCACAGACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGAGTTTACGTGCT 109
Qy 111 ACCAGCAGAGGGCCCCCAGTTGGGTGCGTGCAAGTGGCGCAAGACTTCCGAGCGGTGCGCA 170
Db 110 ACCAGCAGAGGGCCCCCAGTTGGGTGCGTGCAAGTGGCGCAAGACTTCCGAGCGGTGCGCA 169
Qy 171 ACCTCGAGTAGGCGCCCAACCCATCCCGAGGGCGCGCAACCGAGGCGAGTCTCTGGGC 230
Db 170 ACCTCGAGTAGGCGCCCAACCCATCCCGAGGGCGCGCAACCGAGGCGAGTCTCTGGGC 229
Qy 231 TCAGCCCGGGTACCTTCGCCCCCTATATGGAATGAGGGCTGCGGGTGGCGAGGTGGCT 290
Db 230 TCAGCCCGGGTACCTTCGCCCCCTATATGGAATGAGGGCTGCGGGTGGCGAGGTGGCT 289
Qy 291 CCTGTCCCGCGCGGCTCTCGCCCGTCTGCGGGGCCCAAAATGACCCCGCGCAGGA 346
Db 290 CCTGTCCCGCGCGGCTCTCGCCCGTCTGCGGGGCCCAAAATGACCCCGCGCAGGA 345

RESULT 2
US-09-899-046-147
; Sequence 147, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
;   APPLICANT:
;   TITLE OF INVENTION: New sequences of hepatitis C virus
;   TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
;   NUMBER OF SEQUENCES: 270
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/09/899,046
;     FILING DATE:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: 08/362,455
;       FILING DATE:
;   INFORMATION FOR SEQ ID NO: 147:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 345 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;     MOLECULE TYPE: cDNA
;     HYPOTHETICAL: NO
;     ANTI-SENSE: NO
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 1..345
;   FEATURE:
;     NAME/KEY: mat_peptide
;     LOCATION: 1..342
;   SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147

Query Match      85.5%; Score 296; DB 10; Length 345;
Best Local Similarity 100.0%; Pred. No. 1.2e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 51 CCGGCCACAGACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGAGTTTACGTGCT 110
Db 50 CCGGCCACAGACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGAGTTTACGTGCT 109
Qy 111 ACCAGCAGAGGGCCCCCAGTTGGGTGCGTGCAAGTGGCGCAAGACTTCCGAGCGGTGCGCA 170
Db 110 ACCAGCAGAGGGCCCCCAGTTGGGTGCGTGCAAGTGGCGCAAGACTTCCGAGCGGTGCGCA 169
Qy 171 ACCTCGAGTAGGCGCCCAACCCATCCCGAGGGCGCGCAACCGAGGCGAGTCTCTGGGC 230
Db 170 ACCTCGAGTAGGCGCCCAACCCATCCCGAGGGCGCGCAACCGAGGCGAGTCTCTGGGC 229
Qy 231 TCAGCCCGGGTACCTTCGCCCCCTATATGGAATGAGGGCTGCGGGTGGCGAGGTGGCT 290
Db 230 TCAGCCCGGGTACCTTCGCCCCCTATATGGAATGAGGGCTGCGGGTGGCGAGGTGGCT 289
Qy 291 CCTGTCCCGCGCGGCTCTCGCCCGTCTGCGGGGCCCAAAATGACCCCGCGCAGGA 346
Db 290 CCTGTCCCGCGCGGCTCTCGCCCGTCTGCGGGGCCCAAAATGACCCCGCGCAGGA 345
```

```
;
; FEATURE:
;   NAME/KEY: CDS
;   LOCATION: 1..346
;   FEATURE:
;     NAME/KEY: mat_peptide
;     LOCATION: 1..342
US-09-899-046-147

Query Match      85.5%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 1.2e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 51 CCGGCCACAGACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGAGTTTACGTGCT 110
Db 51 CCGGCCACAGACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGAGTTTACGTGCT 110
Qy 111 ACCAGCAGAGGGCCCCCAGTTGGGTGCGTGCAAGTGGCGCAAGACTTCCGAGCGGTGCGCA 170
Db 111 ACCAGCAGAGGGCCCCCAGTTGGGTGCGTGCAAGTGGCGCAAGACTTCCGAGCGGTGCGCA 170
Qy 171 ACCTCGAGTAGGCGCCCAACCCATCCCGAGGGCGCGCAACCGAGGCGAGTCTCTGGGC 230
Db 171 ACCTCGAGTAGGCGCCCAACCCATCCCGAGGGCGCGCAACCGAGGCGAGTCTCTGGGC 230
Qy 231 TCAGCCCGGGTACCTTCGCCCCCTATATGGAATGAGGGCTGCGGGTGGCGAGGTGGCT 290
Db 231 TCAGCCCGGGTACCTTCGCCCCCTATATGGAATGAGGGCTGCGGGTGGCGAGGTGGCT 290
Qy 291 CCTGTCCCGCGCGGCTCTCGCCCGTCTGCGGGGCCCAAAATGACCCCGCGCAGGA 346
Db 291 CCTGTCCCGCGCGGCTCTCGCCCGTCTGCGGGGCCCAAAATGACCCCGCGCAGGA 346

RESULT 3
US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
;   APPLICANT:
;   TITLE OF INVENTION: New sequences of hepatitis C virus
;   TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
;   NUMBER OF SEQUENCES: 270
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/09/878,281
;     FILING DATE:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: 08/362,455
;       FILING DATE:
;   INFORMATION FOR SEQ ID NO: 147:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 346 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;     MOLECULE TYPE: cDNA
;     HYPOTHETICAL: NO
;     ANTI-SENSE: NO
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 1..346
;   FEATURE:
;     NAME/KEY: mat_peptide
;     LOCATION: 1..342
US-09-878-281-147

Query Match      85.5%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 1.2e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```



; APPLICATION NUMBER: US07/573,643  
; FILING DATE: 27-AUG-1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: James P. Hillman Esq.  
; REGISTRATION NUMBER: 29748  
; REFERENCE/DOCKET NUMBER: 55467/69  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 651 3991  
; TELEFAX: (510) 651 5991  
; TELEX: <Unknown>  
; INFORMATION FOR SEQ ID NO: 13:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 378 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Genomic DNA  
; HYPOTHETICAL: no  
; ANTI-SENSE: no  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 16-375  
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
US-10-677-956-13

Query Match 12.4%; Score 43; DB 20; Length 378;  
Best Local Similarity 100.0%; Pred. No. 2.2e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 254  
|||||  
Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 269  
|||||

## RESULT 6

US-09-194-949-5  
; Sequence 5, Application US/09194949  
; Publication No. US20030053987A1  
; GENERAL INFORMATION:  
; APPLICANT: Merck & Co., Inc.  
; APPLICANT: Donnelly, John J.  
; APPLICANT: Fu, Tong-Ming  
; APPLICANT: Liu, Margaret A.  
; APPLICANT: Shiver, John W.  
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES  
; FILE REFERENCE: 19732YP  
; CURRENT APPLICATION NUMBER: US/09/194,949  
; CURRENT FILING DATE: 2000-02-17  
; PRIOR APPLICATION NUMBER: PCT/US97/09884  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/020,494  
; PRIOR FILING DATE: 1996-06-11  
; PRIOR APPLICATION NUMBER: 60/033,534  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 573  
; TYPE: DNA  
; ORGANISM: Hepatitis C Virus  
US-09-194-949-5

Query Match 12.4%; Score 43; DB 10; Length 573;  
Best Local Similarity 100.0%; Pred. No. 2.1e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 254  
|||||  
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 254  
|||||

## RESULT 7

US-10-664-391-5

; Sequence 5, Application US/10664391  
; Publication No. US20050074752A1  
; GENERAL INFORMATION:  
; APPLICANT: Donnelly, John J.  
; APPLICANT: Liu, Margaret A.  
; APPLICANT: Shiver, John W.  
; APPLICANT: Fu, Tong-Ming  
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES  
; FILE REFERENCE: 19732YPCA  
; CURRENT APPLICATION NUMBER: US/10/664,391  
; CURRENT FILING DATE: 2003-09-17  
; PRIOR APPLICATION NUMBER: PCT/US97/09884  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/033,534  
; PRIOR FILING DATE: 1996-12-20  
; PRIOR APPLICATION NUMBER: 60/020,494  
; PRIOR FILING DATE: 1996-06-11  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 573  
; TYPE: DNA  
; ORGANISM: Hepatitis C Virus  
US-10-664-391-5

Query Match 12.4%; Score 43; DB 21; Length 573;  
Best Local Similarity 100.0%; Pred. No. 2.1e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 254  
|||||  
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 254  
|||||

## RESULT 8

US-09-851-138-65  
; Sequence 65, Application US/09851138  
; Publication No. US20020183508A1  
; GENERAL INFORMATION:  
; APPLICANT: MAERTENS, GEERT  
; STUYVER, LIEVEN  
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
AGENTS  
; NUMBER OF SEQUENCES: 207  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ARNOLD, WHITE & DURKEE  
; STREET: P.O. BOX 4433  
; CITY: HOUSTON  
; STATE: TEXAS  
; COUNTRY: USA  
; ZIP: 77210-4433  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Microsoft Word 6.0 / ASCII text output  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/851,138  
; FILING DATE: 09-May-2001  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/836,075  
; FILING DATE: <Unknown>  
; APPLICATION NUMBER: EP 94870166.9  
; FILING DATE: 21 Oct 1994  
; APPLICATION NUMBER: EP 95870076.7  
; FILING DATE: 28 Jun 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: KAMMERER, PATRICIA A.  
; REGISTRATION NUMBER: 29,775  
; REFERENCE/DOCKET NUMBER: INNS:004  
; INFORMATION FOR SEQ ID NO: 65:  
; SEQUENCE CHARACTERISTICS:

LENGTH: 831 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
SEQUENCE DESCRIPTION: SEQ ID NO: 65:

US-09-851-138-65

Query Match 12.4%; Score 43; DB 9; Length 831;  
Best Local Similarity 100.0%; Pred. No. 2e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGCGAGTCTCGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

Db 227 CCGAGGCGAGTCTCGGGCTCAGCCCGGGTACCCCTTGGCCCT 269

## RESULT 9

US-09-921-397-39  
; Sequence 39, Application US/09921397  
; Patent No. US20020151484A1  
; GENERAL INFORMATION:

APPLICANT: HYBRIGENICS  
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a  
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and  
; TITLE OF INVENTION: applications thereof  
; FILE REFERENCE: B4809A - JAZ  
; CURRENT APPLICATION NUMBER: US/09/921,397  
; CURRENT FILING DATE: 2001-08-02  
; PRIOR APPLICATION NUMBER: EP 00402225.7  
; PRIOR FILING DATE: 2000-08-03  
; NUMBER OF SEQ ID NOS: 156  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 39

LENGTH: 152  
TYPE: DNA  
ORGANISM: Hepatitis C virus  
US-09-921-397-39

Query Match 9.0%; Score 31; DB 9; Length 152;  
Best Local Similarity 100.0%; Pred. No. 5.6e-06;  
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CTTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

Db 120 CTTGGGCTCAGCCCGGGTACCCCTTGGCCCT 150

## RESULT 10

US-09-921-397-41  
; Sequence 41, Application US/09921397  
; Patent No. US20020151484A1  
; GENERAL INFORMATION:

APPLICANT: HYBRIGENICS  
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a  
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and  
; TITLE OF INVENTION: applications thereof  
; FILE REFERENCE: B4809A - JAZ  
; CURRENT APPLICATION NUMBER: US/09/921,397  
; CURRENT FILING DATE: 2001-08-02  
; PRIOR APPLICATION NUMBER: EP 00402225.7  
; PRIOR FILING DATE: 2000-08-03  
; NUMBER OF SEQ ID NOS: 156  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 41

LENGTH: 234  
TYPE: DNA  
ORGANISM: Hepatitis C virus  
US-09-921-397-41

Query Match 9.0%; Score 31; DB 9; Length 234;

Best Local Similarity 100.0%; Pred. No. 5.4e-06;  
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CTTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

Db 186 CTTGGGCTCAGCCCGGGTACCCCTTGGCCCT 216

## RESULT 11

US-10-071-867-16

; Sequence 16, Application US/10071867  
; Publication No. US20030166267A1  
; GENERAL INFORMATION:

APPLICANT: Creagene Inc.  
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT  
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS  
; FILE REFERENCE: Creagene-USA-1  
; CURRENT APPLICATION NUMBER: US/10/071,867  
; CURRENT FILING DATE: 2002-02-08  
; PRIOR APPLICATION NUMBER: KR 2001-6229  
; PRIOR FILING DATE: 2001-02-08  
; NUMBER OF SEQ ID NOS: 95  
; SOFTWARE: KopatentIn 1.71  
; SEQ ID NO 16

LENGTH: 300  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: HCV core-100  
US-10-071-867-16

Query Match 9.0%; Score 31; DB 16; Length 300;  
Best Local Similarity 100.0%; Pred. No. 5.2e-06;  
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CTTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

Db 224 CTTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

## RESULT 12

US-09-921-397-114

; Sequence 114, Application US/09921397  
; Patent No. US20020151484A1  
; GENERAL INFORMATION:

APPLICANT: HYBRIGENICS  
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a  
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and  
; TITLE OF INVENTION: applications thereof  
; FILE REFERENCE: B4809A - JAZ  
; CURRENT APPLICATION NUMBER: US/09/921,397  
; CURRENT FILING DATE: 2001-08-02  
; PRIOR APPLICATION NUMBER: EP 00402225.7  
; PRIOR FILING DATE: 2000-08-03  
; NUMBER OF SEQ ID NOS: 156  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 114

LENGTH: 310  
TYPE: DNA  
ORGANISM: Hepatitis C virus  
US-09-921-397-114

Query Match 9.0%; Score 31; DB 9; Length 310;  
Best Local Similarity 100.0%; Pred. No. 5.2e-06;  
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CTTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

Db 264 CTTGGGCTCAGCCCGGGTACCCCTTGGCCCT 294

## RESULT 13

US-09-851-138-1

```
; Sequence 1, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
;           STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 327 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-851-138-1

Query Match          9.0%; Score 31; DB 9; Length 327;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 212 CCGAGGGCAGGCTCTGGGCTCAGCCGGGTA 242
Db 212 CCGAGGGCAGGCTCTGGGCTCAGCCGGGTA 242

RESULT 14
US-09-921-397-115
; Sequence 115, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; pathogenic strain of the hepatitis C virus and
; applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 115
```

```
; LENGTH: 339
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-115

Query Match          9.0%; Score 31; DB 9; Length 339;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 224 CCTGGGCTCAGCCCGGTACCTTGGCCCT 254
Db 224 CCTGGGCTCAGCCCGGTACCTTGGCCCT 254

RESULT 15
US-09-306-780-3
; Sequence 3, Application US/09306780
; Publication No. US20010051336A1
; GENERAL INFORMATION:
; APPLICANT: TAKEMURA, FUMINORI
;           UENO, EIICHI
;           ITOH, SATORU
; TITLE OF INVENTION: NUCLEIC ACID-BOUND POLYPEPTIDE, METHOD
; OF PRODUCING NUCLEIC ACID-BOUND POLYPEPTIDE AND
; IMMUNOASSAY USING THE POLYPEPTIDE.
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
;           P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/306,780
; FILING DATE: 07-May-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/841,657A
; FILING DATE: 30-APR-1997
; APPLICATION NUMBER: JP 8-134444
; FILING DATE: 01-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 2084-033-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 360 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "synthetic DNA"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..360
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-306-780-3

Query Match          9.0%; Score 31; DB 9; Length 360;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 224 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 254  
|||||  
Db 224 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 254  
|||||

Search completed: July 26, 2005, 07:33:02  
Job time : 453 secs

**THIS PAGE BLANK (USPTO)**



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: July 26, 2005, 07:33:08 ; Search time 18 Seconds  
(without alignments)  
2869.842 Million cell updates/sec

Title: US-09-873-224B-147

Perfect score: 114  
Sequence: 1 atgagcacacttccttaacc.....aaatgaccccgcgagga 346

Scoring table:

OLIGO  
Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 513545 seqs, 74649064 residues

Word size: 1

Total number of hits satisfying chosen parameters: 903960

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: listing first 45 summaries

Command line parameters:

-MODE=frame+ n2p.model -DEV=x1h  
-O=/cg2\_1/USPTO.spool/US09873224/runat.22072005.171216.26815/app.query.fasta.1.519  
-DB=Issued Patents\_AA -QPMT=faster -SUFFIX=oligo.ra1 -MINMATCH=0.1 -LOOPEXT=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi  
-LIST=45 -DOCALIGN=200 -THR\_SCORE=quality -THR\_MIN=1 -ALIGN=15 -MODE=LOCAL  
-OUTFMT=plc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000  
-USER=US09873224 @CGN 1.1 30 @runat.22072005.171216.26815 -NCPU=6 -ICPU=3  
-NO MMAP -LARGEOUTERY -NEG\_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

Issued Patents\_AA:\*  
1: /cg2\_6/prodata/1/1aa/5A.COMB.pep:\*  
2: /cg2\_6/prodata/1/1aa/5B.COMB.pep:\*  
3: /cg2\_6/prodata/1/1aa/6A.COMB.pep:\*  
4: /cg2\_6/prodata/1/1aa/6B.COMB.pep:\*  
5: /cg2\_6/prodata/1/1aa/PCTUS.COMB.pep:\*  
6: /cg2\_6/prodata/1/1aa/backfill1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	114	100.0	115	3	US-08-836-075A-50 Sequence 50, Appl
2	99	86.8	100	4	US-08-635-886C-233 Sequence 233, App
3	99	86.8	100	4	US-08-974-665A-195 Sequence 195, App
4	98	86.0	115	4	US-09-878-281A-148 Sequence 148, App
5	44	38.6	124	1	US-08-244-116B-15 Sequence 15, Appl
6	44	38.6	166	4	US-09-878-281A-154 Sequence 164, App
7	44	38.6	191	2	US-08-290-665A-187 Sequence 187, App
8	44	38.6	191	2	US-08-290-665A-188 Sequence 188, App
9	44	38.6	191	2	US-08-290-665A-189 Sequence 189, App
10	44	38.6	191	2	US-08-290-665A-190 Sequence 190, App
11	44	38.6	191	2	US-08-290-665A-191 Sequence 191, App
12	44	38.6	191	2	US-08-290-665A-192 Sequence 192, App

13	44	38.6	191	2	US-08-290-665A-193 Sequence 193, App
14	44	38.6	191	2	US-08-290-665A-195 Sequence 195, App
15	44	38.6	191	2	US-08-290-665A-196 Sequence 196, App
16	44	38.6	191	2	US-08-290-665A-197 Sequence 197, App
17	44	38.6	191	5	PCT-US95-10398-187 Sequence 187, App
18	44	38.6	191	5	PCT-US95-10398-188 Sequence 188, App
19	44	38.6	191	5	PCT-US95-10398-189 Sequence 189, App
20	44	38.6	191	5	PCT-US95-10398-190 Sequence 190, App
21	44	38.6	191	5	PCT-US95-10398-191 Sequence 191, App
22	44	38.6	191	5	PCT-US95-10398-192 Sequence 192, App
23	44	38.6	191	5	PCT-US95-10398-193 Sequence 193, App
24	44	38.6	191	5	PCT-US95-10398-195 Sequence 195, App
25	44	38.6	191	5	PCT-US95-10398-196 Sequence 196, App
26	44	38.6	191	5	PCT-US95-10398-197 Sequence 197, App
27	44	38.6	191	5	PCT-US95-10398-199 Sequence 199, App
28	44	38.6	319	4	US-08-635-886C-219 Sequence 219, App
29	44	38.6	319	4	US-08-974-665A-217 Sequence 217, App
30	44	38.6	319	4	US-08-974-665A-219 Sequence 219, App
31	38	33.3	120	4	US-08-931-855B-14 Sequence 14, Appl
32	37	32.5	191	2	US-08-290-665A-194 Sequence 194, App
33	37	32.5	191	5	PCT-US95-10398-194 Sequence 194, App
34	36	31.6	166	4	US-09-878-281A-194 Sequence 194, App
35	34	29.8	42	3	US-08-380-160-10 Sequence 10, Appl
36	34	29.8	46	1	US-08-262-037-27 Sequence 27, Appl
37	34	29.8	56	1	US-08-262-037-28 Sequence 28, Appl
38	34	29.8	61	1	US-08-262-037-29 Sequence 29, Appl
39	34	29.8	89	1	US-07-681-703B-24 Sequence 24, Appl
40	34	29.8	89	2	US-08-407-410B-24 Sequence 24, Appl
41	34	29.8	89	2	US-08-485-500-24 Sequence 24, Appl
42	34	29.8	89	5	PCT-US91-02370-24 Sequence 24, Appl
43	34	29.8	119	1	US-07-681-703B-18 Sequence 18, Appl
44	34	29.8	119	2	US-08-407-410B-18 Sequence 18, Appl
45	34	29.8	119	2	US-08-485-500-18 Sequence 18, Appl

#### ALIGNMENTS

RESULT 1  
US-08-836-075A-50  
Sequence 50, Application US/08836075A  
Patent No. 6180768  
GENERAL INFORMATION:  
APPLICANT: MAERTENS, GERT  
APPLICANT: STUYVER, LIEVEN  
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
NUMBER OF SEQUENCES: 207  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ARNOLD, WHITE & DURKEE  
STREET: P.O. BOX 4433  
CITY: HOUSTON  
STATE: TEXAS  
COUNTRY: USA  
ZIP: 77210-4433  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word 6.0 / ASCII text output  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/836,075A  
FILING DATE: 21 Apr 1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/EP95/04155  
FILING DATE: 23 Oct 1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: EP 94870166.9  
FILING DATE: 21 Oct 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: EP 95870076.7  
FILING DATE: 28 Jun 1995  
ATTORNEY/AGENT INFORMATION:

NAME: KAMERER, PATRICIA A.  
REGISTRATION NUMBER: 29,775  
REFERENCE/DOCKET NUMBER: INNS:004  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 115 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-836-075A-50

Alignment Scores:  
Pred. No.: 2,17a-98 Length: 115  
Score: 114.00 Matches: 115  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-836-075A-50 (1-115)

QY 1 ATGACACACTTCTTAACCAAGAAAAACCAAAACCAACACNCCGGCCAG 60  
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn\*\*ArgProGln 20  
QY 61 GACGTTAAGTCCAGAGCGCGGTGAGATCGTTGGTGAAGTTTACGTCTACACGACGAG 120  
DB 21 AspValLysPheProGlyGlyGlyGlnLeuValGlyValValLeuProArgArg 40  
QY 121 GGGCCCAAGTTGGGTGTGGTGCAGTGCAGCAAGACTTCGAGCGGTGCACCTCGCAGT 180  
DB 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGlnArgSerGlnProArgSer 60  
QY 181 AGCGCCCAACCATTCCTTAACCAAGAAAAACCAAAACCAACACNCCGGCCAG 240  
DB 61 ArgArgGlnProLysProLysProGlnArgLysThrLysArgAsnThrAsn\*\*ArgProGln 80  
QY 241 TACCTTGAGCCCTATATGGAATGAGGAGGCTGGGGTGGGAGGGTGGCTCTGTCCTCCG 300  
DB 81 TyrProTrpProLeuTyrGlyAsnGlnGlyCysGlyTyrPalaGlyTyrLeuLeuSerPro 100  
QY 301 CGCGGCTCTGCGCCGTGTGGGCGCAATGACCCCGCGCGCAG 345  
DB 101 ArgGlySerArgProSerTrpGlyProAsnArgProArgArgArg 115

## RESULT 2

US-08-635-886C-233

Sequence 233, Application US/08635886C

Patent No. 6555114

GENERAL INFORMATION:

APPLICANT: LEROUX-ROELS, Geert

APPLICANT: DELEYS, Robert

APPLICANT: MAERTENS, Geert

TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C

FILE REFERENCE: 2752-18

CURRENT APPLICATION NUMBER: US/08/635,886C

PRIOR APPLICATION NUMBER: PCT/EP94/03555

PRIOR FILING DATE: 1994-10-28

PRIOR APPLICATION NUMBER: EP 93402718.6

PRIOR FILING DATE: 1993-11-04

NUMBER OF SEQ ID NOS: 286

SOFTWARE: PatentIn version 3.1

SEQ ID NO 233

LENGTH: 100

TYPE: PRP

ORGANISM: hepatitis C virus

FEATURE:

NAME/KEY: MISC FEATURE

LOCATION: (17)..(17)

OTHER INFORMATION: Xaa is any amino acid

US-08-635-886C-233

Alignment Scores:  
Pred. No.: 2,36e-84 Length: 100  
Score: 99.00 Matches: 100  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.84% Indels: 0  
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-635-886C-233 (1-100)

QY 1 ATGACACACTTCTTAACCAAGAAAAACCAAAACCAACACNCCGGCCAG 60  
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn\*\*ArgProGln 20  
QY 61 GACGTTAAGTCCAGAGCGCGGTGAGATCGTTGGTGAAGTTTACGTCTACACGACGAG 120  
DB 21 AspValLysPheProGlyGlyGlyGlnLeuValGlyValValLeuProArgArg 40  
QY 121 GGGCCCAAGTTGGGTGTGGTGCAGTGCAGCAAGACTTCGAGCGGTGCACCTCGCAGT 180  
DB 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGlnArgSerGlnProArgSer 60  
QY 181 AGCGCCCAACCATTCCTTAACCAAGAAAAACCAAAACCAACACNCCGGCCAG 240  
DB 61 ArgArgGlnProLysProLysProGlnArgLysThrLysArgAsnThrAsn\*\*ArgProGln 80  
QY 241 TACCTTGAGCCCTATATGGAATGAGGAGGCTGGGGTGGGAGGGTGGCTCTGTCCTCCG 300  
DB 81 TyrProTrpProLeuTyrGlyAsnGlnGlyCysGlyTyrPalaGlyTyrLeuLeuSerPro 100

## RESULT 3

US-08-974-690C-233

Sequence 233, Application US/08974690C

Patent No. 6613333

GENERAL INFORMATION:

APPLICANT: LEROUX-ROELS, Geert

APPLICANT: DELEYS, Robert

APPLICANT: MAERTENS, Geert

TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C

FILE REFERENCE: 2551-94

CURRENT APPLICATION NUMBER: US/08/974,690C

PRIOR FILING DATE: 1997-11-19

PRIOR APPLICATION NUMBER: PCT/EP94/03555

PRIOR FILING DATE: 1994-10-28

PRIOR APPLICATION NUMBER: EP 93402718.6

PRIOR FILING DATE: 1993-11-04

NUMBER OF SEQ ID NOS: 286

SOFTWARE: PatentIn version 3.1

SEQ ID NO 233

LENGTH: 100

TYPE: PRP

ORGANISM: hepatitis C virus

FEATURE:

NAME/KEY: MISC FEATURE

LOCATION: (17)..(17)

OTHER INFORMATION: Xaa is any amino acid

US-08-974-690C-233

Alignment Scores:  
Pred. No.: 2,36e-84 Length: 100  
Score: 99.00 Matches: 100  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.84% Indels: 0  
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-974-690C-233 (1-100)

QY 1 ATGACACACTTCTTAACCAAGAAAAACCAAAACCAACACNCCGGCCAG 60  
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn\*\*ArgProGln 20

```
QY 61 GACGTTAAGTCCAGGCGGCGGTGATCGTTGGAGATTAGTGTACGACGAGG 120
DB 21 AepValysPheProGlyGlyGlnIleValGlyValTyrAlaLeuProArg 40
QY 121 GGGCCCGAGTTGGTGGTGCAGTGCAGCAAGACTTCCAGCGGTGCGCACTGCACT 180
DB 41 GlyProGlnIleuGlyValAlaArgAlaValArgIleSerGlnArgSerGlnProArgSer 60
QY 181 AGGCGCGCAACCATCCCGAGCGCGCGGCGCAACCGAGGAGGTCTCTGGCTCAGCCCGGG 240
DB 61 ArgArgGlnProIleProArgAlaArgArgIleGlnArgSerTyrAlaGlnProGly 80
QY 241 TACCTTGGCCCTTATATGGGAATAGAGGCTCGGGTGGCGAGGGTGCCTGTCGCCCG 300
DB 81 TyrProTyrProLeuTyrGlyValGlnGlyCysGlyTyrAlaGlyTyrLeuLeuSerPro 100

RESULT 4
US-09-878-281A-148
; Sequence 148, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 148
; LENGTH: 115
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-09-878-281A-148

Alignment Scores:
Pred. No.: 1,99e-83 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.96% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281A-148 (1-115)
QY 53 GGCACAGAGCGTTAGTCCAGGCGGCGGTGATCGTTGGAGTTAGTGTCTAC 112
DB 18 GlyHisArgThrLeuSerSerGlnAlaValAlaArgSerLeuValGlnIleThrCysTyr 37
QY 113 CACGCGAGGCGCCCGAGTTGGTGTGCTGCGAGTGCAGCAAGACTTCCAGCGGTGCAAC 172
DB 38 HisAlaGlyAlaProSerTyrValCysValGlnCysAlaArgLeuProSerGlyArgAsn 57
QY 173 CTGCGAGTGGCGCCCAACCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTCTGGGCTC 232
DB 58 LeuAlaValAlaGlyAlaAsnProSerProGlyArgAlaGlnProArgAlaGlyProGlyLeu 77
QY 233 AGCGCGGATACCTTGGCGCCCTATATGGGAATAGAGGCTCGGGTGGCGAGGGTGGCTCC 292
DB 78 SerProGlyThrLeuGlyProTyrMetGlyMetArgAlaAlaGlyGlnGlyGlySer 97
QY 293 TGTCCCGCGCGGCTCTGCGCCCTGCTGTTGGGCGCAATGACCCCGCGCGAGGA 346
DB 98 CysProArgAlaAlaLeuAlaArgArgGlyAlaGlnMetThrProGlyAlaGly 115

RESULT 5
US-08-244-116B-15
; Sequence 15, Application US/08244116B
; Patent No. 5763159
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Man
```

```
APPLICANT: Yap, Peng L.
TITLE OF INVENTION: Hepatitis-C Virus Testing
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSER: Bell, Seltzer, Park & Gibson, P.A.
STREET: 1211 East Morehead Street
CITY: Charlotte
STATE: No. 5763159th Carolina
COUNTRY: United States
ZIP: 28234
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0. Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/244,116B
FILING DATE: 15-JUL-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/02143
FILING DATE: 20-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Sibley, Kenneth D.
REGISTRATION NUMBER: 31,665
REFERENCE/DOCKET NUMBER: 1749-125
TELECOMMUNICATION INFORMATION:
TELEPHONE: 704-377-1561
TELEFAX: 704-334-2014
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 124 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: yes
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: Hepatitis-C virus

US-08-244-116B-15

Alignment Scores:
Pred. No.: 6,21e-33 Length: 124
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-244-116B-15 (1-124)
QY 214 GAGGCGAGGTCTCTGGGCTCAGGCGCGGATACCTTGGCCCTTATATGGGAATGAGGCTGC 273
DB 68 GlnGlyArgSerTyrAlaGlnProGlyTyrProTyrProLeuTyrGlyAsnIleGlyCys 87
QY 274 GGGTGGCGAGGGTGTCTCTGTGTCGCCCGGCGGCTCTGCGCCCTCTGGGGCCCAATGAC 333
DB 88 GlyTyrAlaGlyTyrLeuLeuSerProArgGlySerArgProSerTyrGlyProAsnAsp 107
QY 334 CCGCGCGCGAGG 345
DB 108 ProArgArgArg 111

RESULT 6
US-09-878-281A-164
; Sequence 164, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
```

/ CURRENT APPLICATION NUMBER: US/09/878,281A  
/ CURRENT FILING DATE: 2001-06-12  
/ NUMBER OF SEQ ID NOS: 284  
/ SOFTWARE: PatentIn version 3.1  
/ SEQ ID NO 164  
/ LENGTH: 166  
/ TYPE: PRT  
/ ORGANISM: hepatitis C virus  
US-09-878-281A-164

Alignment Scores:  
Pred. No.: 5,95e-33 Length: 166  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.60% Indels: 0  
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281A-164 (1-166)

QY 214 GAGGGCAGGTCTGGGCTCAGCCCGGGTACCTTGCCCTTATATGGGAATGAGGGCTGC 273  
|||  
DB 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGlyCys 91  
|||

QY 274 GGGTGGGAGGGTGGCTCTGTCCTCCCGCGCGGCTCTCGCCGCTGGGGGCCCAATGAC 333  
|||  
DB 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111  
|||

QY 334 CCCGCGCGCAGG 345  
|||  
DB 112 ProArgArgArg 115  
|||

RESULT 7  
US-08-290-665A-187  
/ Sequence 187, Application US/08290665A  
/ Patent No. 5882852  
/ GENERAL INFORMATION:  
/ APPLICANT: BURCELL, R.H., MILLER, R.H. AND  
/ TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
/ TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
/ TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
/ TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
/ TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
/ NUMBER OF SEQUENCES: 263  
/ CORRESPONDENCE ADDRESS:  
/ ADDRESSEE: MORGAN & FINNEGAN  
/ STREET: 345 PARK AVENUE  
/ CITY: NEW YORK  
/ STATE: NEW YORK  
/ COUNTRY: USA  
/ ZIP: 10154  
/ COMPUTER READABLE FORM:  
/ MEDIUM TYPE: FLOPPY DISK  
/ COMPUTER: IBM PC COMPATIBLE  
/ OPERATING SYSTEM: PC-DOS/MS-DOS  
/ SOFTWARE: WORDPERFECT 5.1  
/ CURRENT APPLICATION DATA:  
/ APPLICATION NUMBER: US/08/290,665A  
/ FILING DATE: 15-AUG-1994  
/ CLASSIFICATION: 435  
/ ATTORNEY/AGENT INFORMATION:  
/ NAME: RICHARD W. BORK  
/ REGISTRATION NUMBER: 36,459  
/ REFERENCE/DOCKET NUMBER: 2026-4116  
/ TELECOMMUNICATION INFORMATION:  
/ TELEPHONE: (212) 758-4800  
/ TELEFAX: (212) 751-6849  
/ INFORMATION FOR SEQ ID NO: 187:  
/ SEQUENCE CHARACTERISTICS:  
/ LENGTH: 191 amino acids  
/ TYPE: amino acid

/ STRANDEDNESS: unknown  
/ TOPOLOGY: unknown  
/ ORIGINAL SOURCE:  
/ ORGANISM: homospapiens  
/ INDIVIDUAL ISOLATE: HK10  
US-08-290-665A-187

Alignment Scores:  
Pred. No.: 5,84e-33 Length: 191  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.60% Indels: 0  
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-187 (1-191)

QY 214 GAGGGCAGGTCTGGGCTCAGCCCGGGTACCTTGCCCTTATATGGGAATGAGGGCTGC 273  
|||  
DB 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGlyCys 91  
|||

QY 274 GGGTGGGAGGGTGGCTCTGTCCTCCCGCGCGGCTCTCGCCGCTGGGGGCCCAATGAC 333  
|||  
DB 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111  
|||

QY 334 CCCGCGCGCAGG 345  
|||  
DB 112 ProArgArgArg 115  
|||

RESULT 8  
US-08-290-665A-188  
/ Sequence 188, Application US/08290665A  
/ Patent No. 5882852  
/ GENERAL INFORMATION:  
/ APPLICANT: BURCELL, R.H., MILLER, R.H. AND  
/ TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
/ TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
/ TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
/ TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
/ TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
/ NUMBER OF SEQUENCES: 263  
/ CORRESPONDENCE ADDRESS:  
/ ADDRESSEE: MORGAN & FINNEGAN  
/ STREET: 345 PARK AVENUE  
/ CITY: NEW YORK  
/ STATE: NEW YORK  
/ COUNTRY: USA  
/ ZIP: 10154  
/ COMPUTER READABLE FORM:  
/ MEDIUM TYPE: FLOPPY DISK  
/ COMPUTER: IBM PC COMPATIBLE  
/ OPERATING SYSTEM: PC-DOS/MS-DOS  
/ SOFTWARE: WORDPERFECT 5.1  
/ CURRENT APPLICATION DATA:  
/ APPLICATION NUMBER: US/08/290,665A  
/ FILING DATE: 15-AUG-1994  
/ CLASSIFICATION: 435  
/ ATTORNEY/AGENT INFORMATION:  
/ NAME: RICHARD W. BORK  
/ REGISTRATION NUMBER: 36,459  
/ REFERENCE/DOCKET NUMBER: 2026-4116  
/ TELECOMMUNICATION INFORMATION:  
/ TELEPHONE: (212) 758-4800  
/ TELEFAX: (212) 751-6849  
/ INFORMATION FOR SEQ ID NO: 188:  
/ SEQUENCE CHARACTERISTICS:  
/ LENGTH: 191 amino acids  
/ TYPE: amino acid  
/ STRANDEDNESS: unknown  
/ TOPOLOGY: unknown  
/ ORIGINAL SOURCE:

	Alignment Scores:		
Pred. No.: 5	84e-33	Length: 191	
Score: 44.00		Matches: 44	
Percent Similarity: 100.00%		Conservative: 0	
Best Local Similarity: 100.00%		Mismatches: 0	
Query Match: 38.60%		Indels: 0	
DB: 2		Gaps: 0	
US-09-873-224B-147 (1-346) X US-08-290-665A-189 (1-191)			
OY 214 GAGGGGAGGTCTTGCGGCTCAGCCGCCGGAACCTTGGCCCCCATATGGAATAAGAGGGTCG	273		
Db 72 GIUGLYARSETETTPALAGImrodIyTrProTriPProLeutyRGlyAsnGIuGLyCs	91		
OY 274 GGTTGGGGCGGGNGGCCTGTGCCCCGGCGGACTCTGSCCCGTAAGTGGGCCCNAATGAC	333		
Db 92 GLYTTPALAGLTYTrpeutseuseerProargLyserarprosertTpGIyProabshsp	111		
OY 334 CCCCCGCGCAGG 345			
Db 112 ProArgArGrAgR 115			
RESULT 10			
US-08-290-665A-190			
Sequence 190, Application US/08290665A			
Patent No. 5882852			
GENERAL INFORMATION:			
APPLICANT: BUCH, J., MILLER, R.H. AND			
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED			
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND			
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS			
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE			
NUMBER OF SEQUENCES: 263			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: MORGAN & FINNEGAN			
STREET: 345 PARK AVENUE			
CITY: NEW YORK			
STATE: NEW YORK			
COUNTRY: USA			
ZIP: 10154			
COMPUTER READABLE FORM:			
MEDIUM TYPE: FLOPPY DISK			
COMPUTER: IBM PC COMPATIBLE			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: WORDPERFECT 5.1			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/08/290,665A			
FILING DATE: 15-AUG-1994			
CLASSIFICATION: 435			
ATTORNEY/AGENT INFORMATION:			
NAME: RICHARD W. BORK			
REGISTRATION NUMBER: 36,459			
REFERENCE/DOCKET NUMBER: 2026-4116			
TELECOMMUNICATION INFORMATION:			
TELEPHONE: (212) 758-4800			
TELEFAX: (212) 751-6849			
INFORMATION FOR SEQ ID NO: 190:			
SEQUENCE CHARACTERISTICS:			
LENGTH: 191 amino acids			
TYPE: amino acid			
STRANDEDNESS: unknown			
TOPOLOGY: unknown			
ORIGINAL SOURCE:			
ORGANISM: homosapiens			
INDIVIDUAL ISOLATE: DK12			
US-08-290-665A-190			
Alignment Scores:			
Pred. No.: 5	84e-33	Length: 191	

Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.60% Indels: 0  
DB: 2 Gaps: 0  
US-09-873-224B-147 (1-346) x US-08-290-665A-190 (1-191)  
QY 214 GAGGGCAGGTCTGCTGAGCCCGGGTACCTTGCCCTATATGGGAATGAGGCTGC 273  
DB 72 GUGUyAgsseTTPAlaGlnProGlyTYrProTTPProLeuTYrGlyAsnGluGlyCys 91  
QY 274 GGGTGGGAGGAGGTGCTCTGCTCCCGGCGGCTCTCGCCGCTCGTGGGGCCCAATGAC 333  
DB 92 GYTTPAlaGlyTYrPLeuLeuSerProArgGlySerArgProSerTTPGlyProAsnAp 111  
QY 334 CCGCGGCGCAGG 345  
DB 112 ProArgArgArg 115  
RESULT 11  
US-08-290-665A-191  
; Sequence 191, Application US/08290665A  
; Patent No. 5882852  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/290,665A  
; FILING DATE: 15-AUG-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: RICHARD W. BORK  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; INFORMATION FOR SEQ ID NO: 191:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 191 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; ORIGINAL SOURCE:  
; ORGANISM: homosapiens  
; INDIVIDUAL ISOLATE: Z4  
; US-08-290-665A-191  
Alignment Scores:  
Pred. No.: 5.84e-33 Length: 191  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Mismatches: 0  
Best Local Similarity: 100.00% Indels: 0  
Gaps: 0

Query Match: 38.60% Indels: 0  
DB: 2 Gaps: 0  
US-09-873-224B-147 (1-346) x US-08-290-665A-191 (1-191)  
QY 214 GAGGGCAGGTCTGCTGAGCCCGGGTACCTTGCCCTATATGGGAATGAGGCTGC 273  
DB 72 GUGUyAgsseTTPAlaGlnProGlyTYrProTTPProLeuTYrGlyAsnGluGlyCys 91  
QY 274 GGGTGGGAGGAGGTGCTCTGCTCCCGGCGGCTCTCGCCGCTCGTGGGGCCCAATGAC 333  
DB 92 GYTTPAlaGlyTYrPLeuLeuSerProArgGlySerArgProSerTTPGlyProAsnAp 111  
QY 334 CCGCGGCGCAGG 345  
DB 112 ProArgArgArg 115  
RESULT 12  
US-08-290-665A-192  
; Sequence 192, Application US/08290665A  
; Patent No. 5882852  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/290,665A  
; FILING DATE: 15-AUG-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: RICHARD W. BORK  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; INFORMATION FOR SEQ ID NO: 192:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 191 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; ORIGINAL SOURCE:  
; ORGANISM: homosapiens  
; INDIVIDUAL ISOLATE: Z8  
; US-08-290-665A-192  
Alignment Scores:  
Pred. No.: 5.84e-33 Length: 191  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Mismatches: 0  
Best Local Similarity: 100.00% Indels: 0  
Query Match: 38.60% Indels: 0  
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) X US-08-290-665A-192 (1-191)

QY 214 GAGGCGAGGTCTGCTGAGCCCGGCTACCTTGCCCTTATGGAATGAGGCTGC 273

Db 72 GUGUAGSERTPALAGInProGlyTyRProTIPProLeuTyGlyAasnGluGlyCys 91

QY 274 GGGTGGGCGAGGTGGCTCTGTCGCCCGGCGCTCTCGCCGCGGGGCCCAATGAC 333

Db 92 GYTTPALAGlyTyRpleuLeuSerProArgGlySerArgProSerTIPGlyProAsnAsp 111

QY 334 CCCGCGCGCAGG 345

Db 112 ProArgArgArg 115

## RESULT 13

US-08-290-665A-193

Sequence 193, Application US/08290665A

Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BURKH, J., MILLER, R.H. AND

APPLICANT: PURCELL, R.H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN &amp; FINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A

FILING DATE: 15-AUG-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 751-6800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 193:

SEQUENCE CHARACTERISTICS:

LENGTH: 191 amino acids

TYPE: amino acid

STRANDEDNESS: unknown

TOPOLOGY: unknown

ORIGINAL SOURCE:

ORGANISM: homoaapiens

INDIVIDUAL ISOLATE: 21

US-08-290-665A-193

## Alignment Scores:

Pred. No.: 5,84e-33

Score: 44.00

Percent Similarity: 100.00%

Best Local Similarity: 100.00%

Query Match: 38.60%

DB: 2

Gaps: 0

US-09-873-224B-147 (1-346) X US-08-290-665A-193 (1-191)

QY 214 GAGGCGAGGTCTGCTGAGCCCGGCTACCTTGCCCTTATGGAATGAGGCTGC 273

Db 72 GUGUAGSERTPALAGInProGlyTyRProTIPProLeuTyGlyAasnGluGlyCys 91

QY 334 CCCGCGCGCAGG 345

Db 112 ProArgArgArg 115

## RESULT 14

US-08-290-665A-195

Sequence 195, Application US/08290665A

Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BURKH, J., MILLER, R.H. AND

APPLICANT: PURCELL, R.H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN &amp; FINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A

FILING DATE: 15-AUG-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 751-6800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 195:

SEQUENCE CHARACTERISTICS:

LENGTH: 191 amino acids

TYPE: amino acid

STRANDEDNESS: unknown

TOPOLOGY: unknown

ORIGINAL SOURCE:

ORGANISM: homoaapiens

INDIVIDUAL ISOLATE: 26

US-08-290-665A-195

## Alignment Scores:

Pred. No.: 5,84e-33

Score: 44.00

Percent Similarity: 100.00%

Best Local Similarity: 100.00%

Query Match: 38.60%

DB: 2

Gaps: 0

US-09-873-224B-147 (1-346) X US-08-290-665A-195 (1-191)

QY 214 GAGGCGAGGTCTGCTGAGCCCGGCTACCTTGCCCTTATGGAATGAGGCTGC 273

Db 72 GUGUAGSERTPALAGInProGlyTyRProTIPProLeuTyGlyAasnGluGlyCys 91





GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model  
Run on: July 26, 2005, 07:59:53 ; Search time 59 Seconds  
(without alignments)  
4562.418 Million cell updates/sec  
Title: US-09-873-224B-147  
Perfect score: 114  
Sequence: 1 atgagcacactctctaaac.....aaatgaccccgccgagga 346

Scoring table: OLIGO  
Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0  
Searched: 1741741 seqs, 388992284 residues  
Word size: 1

Total number of hits satisfying chosen parameters: 3339736

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:  
-MODE=frame\_n2p.model -DEV=xlh  
-Q=/cgn2\_1/USPTO.spool/US09873224/runat\_22072005\_171217\_26851/app\_query.fasta\_1.519  
-DB=Published Applications AA -QMT=fastan -SUFFIX=oligo.rapp -MINMATCH=0.1  
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo  
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=quality -THR MIN=1  
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US09873224\_@CGN\_1\_124\_@runat\_22072005\_171217\_26851  
-NCPUS=6 -ICPU=3 -NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBIOCK=100  
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60  
-YGAPOP=6 -YGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Published Applications AA:  
1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*  
9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*  
17: /cgn2\_6/ptodata/2/pubpaa/US10E\_PUBCOMB.pep.\*  
18: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*  
19: /cgn2\_6/ptodata/2/pubpaa/US11A\_PUBCOMB.pep.\*  
20: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*  
21: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	114	100.0	115	9	US-09-851-138-50
2	114	100.0	115	10	US-09-899-046-148
3	114	100.0	115	10	US-09-878-281-148
4	99	86.8	100	15	US-10-651-165-233
5	98	86.0	115	10	US-09-873-224-148
6	44	38.6	124	14	US-10-396-964-15
7	44	38.6	166	10	US-09-899-046-164
8	44	38.6	166	10	US-09-878-281-164
9	44	38.6	166	10	US-09-873-224-164
10	44	38.6	189	15	US-10-450-649-9
11	44	38.6	319	15	US-10-651-165-217
12	44	38.6	319	15	US-10-651-165-219
13	38	33.3	120	16	US-10-677-956-14
14	38	33.3	130	14	US-10-268-569-19
15	38	33.3	161	14	US-10-230-381-5
16	38	33.3	191	14	US-10-230-381-53
17	38	33.3	191	14	US-10-230-381-54
18	38	33.3	191	14	US-10-230-381-55
19	38	33.3	193	14	US-10-230-381-50
20	38	33.3	193	14	US-10-230-381-51
21	38	33.3	193	14	US-10-230-381-52
22	38	33.3	209	14	US-10-230-381-7
23	38	33.3	209	14	US-10-230-381-11
24	38	33.3	373	14	US-10-230-381-13
25	38	33.3	373	14	US-10-230-381-15
26	38	33.3	373	14	US-10-230-381-15
27	36	31.6	166	10	US-09-899-046-194
28	36	31.6	166	10	US-09-878-281-194
29	36	31.6	166	10	US-09-873-224-194
30	34	29.8	113	9	US-09-921-397-78
31	34	29.8	120	16	US-10-677-956-8
32	34	29.8	120	16	US-10-677-956-10
33	34	29.8	122	14	US-10-098-857B-1
34	34	29.8	126	10	US-09-899-046-166
35	34	29.8	126	10	US-09-878-281-166
36	34	29.8	126	10	US-08-873-224-166
37	34	29.8	151	14	US-10-292-129-14
38	34	29.8	182	9	US-09-923-955-2
39	34	29.8	182	13	US-10-104-966-2
40	34	29.8	182	15	US-10-719-619-2
41	34	29.8	182	16	US-10-817-591-2
42	34	29.8	190	14	US-10-268-562-1
43	34	29.8	190	15	US-10-450-649-7
44	34	29.8	191	18	US-10-770-117-2
45	34	29.8	191	18	US-10-770-117-4

ALIGNMENTS

RESULT 1  
US-09-851-138-50  
; Sequence 50, Application US/09851138  
; Publication No. US20020183508A1  
; GENERAL INFORMATION:  
; APPLICANT: MAERTENS, GERT  
; STUYVER, LIEVEN  
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
; AGENTS  
; NUMBER OF SEQUENCES: 207  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ARNOLD, WHITE & DURKEE  
; STREET: P.O. BOX 4433  
; CITY: HOUSTON  
; STATE: TEXAS  
; COUNTRY: USA  
; ZIP: 77210-4433  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk



TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-878-281-148

## Alignment Scores:

Pred. No.: 8,128-97 Length: 115  
Score: 114.00 Matches: 115  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 10 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281-148 (1-115)

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAACNCCGGCCACAG 60  
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn\*\*\*ArgProGln 20  
QY 61 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120  
DB 21 AspValLysPheProGlyGlyGlnIleValGlyValTyValLeuProArgArg 40  
QY 121 GCCCCCCAGTTGGTGTGCTGCAGTCGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 180  
DB 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60  
QY 181 AGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 240  
DB 61 ArgArgGlnProIleProArgAlaValArgThrGluGlyArgSerTrpAlaGlnProGly 80  
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGCTCTCTGCTCCCG 300  
DB 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
QY 301 CGCGCTCTCGCCGCTGTGGGGCCCAATGATACCCCGCGCAGG 345  
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

## RESULT 4

US-10-651-165-233  
; Sequence 233, Application US/10651165  
; Publication No. US2004004787A1  
; GENERAL INFORMATION:  
; APPLICANT: LEROUX-ROELS, Geert  
; APPLICANT: DELEYS, Robert  
; APPLICANT: MAERTENS, Geert  
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C  
; FILE REFERENCE: 2551-94  
; CURRENT APPLICATION NUMBER: US/10/651,165  
; PRIOR FILING DATE: 2003-09-02  
; PRIOR APPLICATION NUMBER: US/08/974,690C  
; PRIOR FILING DATE: 1997-11-19  
; PRIOR APPLICATION NUMBER: PCT/EP94/03555  
; PRIOR FILING DATE: 1994-10-28  
; PRIOR APPLICATION NUMBER: EP 93402718.6  
; PRIOR FILING DATE: 1993-11-04  
; NUMBER OF SEQ ID NOS: 286  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 233  
; LENGTH: 100  
; TYPE: PRT  
; ORGANISM: hepatitis C virus  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (17)..(17)  
; OTHER INFORMATION: Xaa is any amino acid  
US-10-651-165-233

Alignment Scores:  
Pred. No.: 6,898-83 Length: 100  
Score: 99.00 Matches: 100  
Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.84% Indels: 0  
DB: 15 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-233 (1-100)

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAACNCCGGCCACAG 60  
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn\*\*\*ArgProGln 20  
QY 61 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120  
DB 21 AspValLysPheProGlyGlyGlnIleValGlyValTyValLeuProArgArg 40  
QY 121 GCGCCCCAGTTGGTGTGCTGCAGTCGATCGTCCGAGGCTTCCGAGCGGTCCCAACCTCGCAGT 180  
DB 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60  
QY 181 AGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 240  
DB 61 ArgArgGlnProIleProArgAlaValArgThrGluGlyArgSerTrpAlaGlnProGly 80  
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGCTCTCTGCTCCCG 300  
DB 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

## RESULT 5

US-09-873-224-148  
; Sequence 148, Application US/09873224  
; Publication No. US20030064360A1  
; GENERAL INFORMATION:  
; APPLICANT: <Unknown>  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; ; genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; CORRESPONDENCE ADDRESS:  
; STREET: Industriepark Zwijnaarde 7, box 4  
; CITY: Ghent  
; COUNTRY: Belgium  
; ZIP: B-9052  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/873,224  
; FILING DATE: 05-Jun-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Innogenetics sa.  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 00 32 9 241 07 11  
; TELEFAX: 00 32 9 241 07 99  
; INFORMATION FOR SEQ ID NO: 148:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 115 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 148:  
US-09-873-224-148

Alignment Scores:  
Pred. No.: 5,698-82 Length: 115  
Score: 98.00 Matches: 98  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 85.96% Indels: 0  
DB: 10 Gaps: 0



Db 112 ProArgArg 115

RESULT 8

US-09-878-281-164

Sequence 164, Application US/09878281

Publication No. US20030032005A1

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: New sequences of hepatitis C virus

TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878,281

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE:

INFORMATION FOR SEQ ID NO: 164:

SEQUENCE CHARACTERISTICS:

LENGTH: 166 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-878-281-164

Alignment Scores:

Pred. No.: 6,77e-32 Length: 166

Score: 44.00 Matches: 44

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 38.60% Indels: 0

DB: 10 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281-164 (1-166)

QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGGTGC 273

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

QY 274 GGGTGGGAGGTGCTCTCTCCCGCGGCTCTCCCGCTCGTGGGCCCAATGAC 333

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 334 CCCCAGCGCAGG 345

Db 112 ProArgArg 115

US-09-873-224B-147 (1-346) x US-09-878-281-164 (1-166)

RESULT 9

US-09-873-224-164

Sequence 164, Application US/09873224

Publication No. US20030064360A1

GENERAL INFORMATION:

APPLICANT: <Unknown>

TITLE OF INVENTION: New sequences of hepatitis C virus

TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

CORRESPONDENCE ADDRESS:

STREET: Industriepark Zwijnaarde 7, box 4

CITY: Ghent

COUNTRY: Belgium

ZIP: B-9052

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/873,224

FILING DATE: 05-Jun-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Innogenetics sa.

TELEPHONE: 00 32 9 241 07 11

TELEFAX: 00 32 9 241 07 99

INFORMATION FOR SEQ ID NO: 164:

SEQUENCE CHARACTERISTICS:

LENGTH: 166 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 164:

US-09-873-224-164

Alignment Scores:

Pred. No.: 6,77e-32 Length: 166

Score: 44.00 Matches: 44

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 38.60% Indels: 0

DB: 10 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-873-224-164 (1-166)

QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGGTGC 273

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

QY 274 GGGTGGGAGGTGCTCTCTCCCGCGGCTCTCCCGCTCGTGGGCCCAATGAC 333

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 334 CCCCAGCGCAGG 345

Db 112 ProArgArg 115

US-09-873-224B-147 (1-346) x US-09-873-224-164 (1-166)

RESULT 10

US-10-450-649-9

Sequence 9, Application US/10450649

Publication No. US20040052818A1

GENERAL INFORMATION:

APPLICANT: Heinz, Franz X.

TITLE OF INVENTION: ATTENUATED LIVE VACCINE

FILE REFERENCE: U 014666-0

CURRENT APPLICATION NUMBER: US/10/450,649

CURRENT FILING DATE: 2003-06-16

PRIOR APPLICATION NUMBER: PCT/AT02/00046

PRIOR FILING DATE: 2002-02-11

PRIOR APPLICATION NUMBER: A 272/2001 AT

PRIOR FILING DATE: 2001-02-21

NUMBER OF SEQ ID NOS: 9

SOFTWARE: Patent in version 3.1

SEQ ID NO 9

LENGTH: 189

TYPE: PRT

ORGANISM: Hepatitis C Virus 3

US-10-450-649-9

Alignment Scores:

Pred. No.: 6,61e-32 Length: 189

Score: 44.00 Matches: 44

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 38.60% Indels: 0

DB: 15 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-450-649-9 (1-189)

```
QY 214 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 71 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 90
QY 274 GGGTGGGAGGGTGGCTCCTGTCCCGCGCGGCTCTCGCCCGTGTGGGGCCCAATGAC 333
Db 91 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 110
QY 334 CCCCGCGCAGG 345
Db 111 ProArgArgArg 114

RESULT 11
US-10-651-165-217
; Sequence 217, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.: 6.01e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 15 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-217 (1-319)
QY 214 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCCTGTCCCGCGCGGCTCTCGCCCGTGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 12
US-10-677-956-14
; Sequence 14, Application US/10677956
; Publication No. US20040214163A1
; GENERAL INFORMATION:
; APPLICANT: ZEBEDEE, SUZANNE
; APPLICANT: INCHAUSPE, GENEVIEVE
; APPLICANT: NASOFF, MARC S.
; APPLICANT: PRINCE, ALFRED M.
; APPLICANT: HELTING, TORSTEN B.
; APPLICANT: DREVIN, HAKAN
; APPLICANT: NUNN, MICHAEL P.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
; RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
; STATE: CA
; COUNTRY: USA
; ZIP: 94539
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 5.0 Dos Txt
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/677,956
; FILING DATE: 01-Oct-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/931,855B
; FILING DATE: Sep 16, 1997
; APPLICATION NUMBER: US08/563,733
```

FILING DATE: 8-NOV-1995  
APPLICATION NUMBER: US08/049,531  
FILING DATE: 20-APR-1993  
APPLICATION NUMBER: US07/344,237  
FILING DATE: 26-APR-1989  
APPLICATION NUMBER: US07/191,229  
FILING DATE: 06-MAY-1988  
APPLICATION NUMBER: US07/206,499  
FILING DATE: 13-JUN-1988  
APPLICATION NUMBER: US07/258,016  
FILING DATE: 14-OCT-1988  
APPLICATION NUMBER: US08/272,271  
FILING DATE: 8-JUL-1994  
APPLICATION NUMBER: US07/616,369  
FILING DATE: 21-NOV-1990  
APPLICATION NUMBER: US07/573,643  
FILING DATE: 27-AUG-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: James P. Hillman Esq.  
REGISTRATION NUMBER: 29748  
REFERENCE/DOCKET NUMBER: 55467/69  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 651 3991  
TELEFAX: (510) 651 5991  
TELEX: <Unknown>  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 120 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
US-10-677-956-14

Alignment Scores:  
Pred. No.: 2,658-26 Length: 120  
Score: 38.00 Matches: 38  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 33.33% Indels: 0  
DB: 16 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-677-956-14 (1-120)

QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273  
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91  
QY 274 GGGTGGGCGAGGTGGCTCTCTGTCGCCCGCGGCTCTCGCCCGCTCGTGGGGCCCA 327  
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyPro 109

RESULT 14  
US-10-268-569-19  
; Sequence 19, Application US/10268569  
; Publication No. US20030152965A1  
; GENERAL INFORMATION:  
; APPLICANT: Ortho-Clinical Diagnostics, Inc.  
; TITLE OF INVENTION: HCV Core Protein Sequences  
; FILE REFERENCE: CDS-0288  
; CURRENT APPLICATION NUMBER: US/10/268,569  
; PRIOR FILING DATE: 2002-10-10  
; PRIOR APPLICATION NUMBER: 60/347,303  
; PRIOR FILING DATE: 2001-11-11  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 19  
; LENGTH: 130  
; TYPE: PRT  
; ORGANISM: Hepatitis C virus  
US-10-268-569-19

Alignment Scores:

Pred. No.: 2,618-26 Length: 130  
Score: 38.00 Matches: 38  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 33.33% Indels: 0  
DB: 14 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-268-569-19 (1-130)

QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273  
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91  
QY 274 GGGTGGGCGAGGTGGCTCTCTGTCGCCCGCGGCTCTCGCCCGCTCGTGGGGCCCA 327  
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyPro 109

RESULT 15

US-10-230-381-5  
; Sequence 5, Application US/10230381  
; Publication No. US20030152591A1  
; GENERAL INFORMATION:  
; APPLICANT: Innogenetics N.V.  
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,  
; FILE REFERENCE: INN-124-EP  
; CURRENT APPLICATION NUMBER: US/10/230,381  
; CURRENT FILING DATE: 2002-08-29  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 161  
; TYPE: PRT  
; ORGANISM: Hepatitis C virus  
US-10-230-381-5

Alignment Scores:  
Pred. No.: 2,518-26 Length: 161  
Score: 38.00 Matches: 38  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 33.33% Indels: 0  
DB: 14 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-230-381-5 (1-161)

QY 232 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTCGGGTGGCAGGTGGCTC 291  
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97  
QY 292 CTGTCCCCCGCGGCTCTCGCCCGCTCGTGGGGCCCAATGACCCCGCGCAGG 345  
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

Search completed: July 26, 2005, 08:16:09  
Job time : 60 secs

**THIS PAGE BLANK (USPTO)**







RESULT 5  
US-08-290-665A-136  
; Sequence 136. Application US/08290665A

Db  
301 CGCGGGCTCCCGTCCATCTTTGGGGCCCAACGACCCCCCGCGGAGG 345





; Sequence 135, Application US/08290665A  
; Patent No. 5882852  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; APPLICANT: PURCELL, R.H.  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/290,665A  
; FILING DATE: 15-AUG-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: RICHARD W. BORK  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; TELEX: 421792  
; INFORMATION FOR SEQ ID NO: 135:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 573 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; ORGANISM: hom sapiens  
; INDIVIDUAL ISOLATE: HK10  
US-08-290-665A-135  
Query Match 77.2%; Score 267.2; DB 2; Length 573;  
Best Local Similarity 85.8%; Pred. No. 5.2e-65;  
Matches 296; Conservative 0; Mismatches 49; Indels 0; Gaps 0;  
QY 1 ATGAGCACACTTCCTAAACCAAGAAAGAAACCAAGAAACCAACCAACCCGCGCCACAG 60  
DB 1 ATGAGCACACTTCCTAAACCAAGAAAGAAACCAAGAAACCAACCAACCCGCGCCACAG 60  
QY 61 GACGTTAAGTTCCCGAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 120  
DB 61 GACGTTAAGTTCCCGAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 120  
QY 121 GGGCCCCAGTTGGGTGTCGAGTCCGAGTCCGAGTCCGAGTCCGAGTCCGAGTCCGAGT 180  
DB 121 GGGCCCCAGTTGGGTGTCGAGTCCGAGTCCGAGTCCGAGTCCGAGTCCGAGTCCGAGT 180  
QY 181 AGGCGCAACCCATCCCGAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 240  
DB 181 AGGCGCAACCCATCCCGAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 240  
QY 241 TACCCCTGGCCCTTATATGGGAATGAGGCTGCGGCTGGGAGGAGGAGGAGGAGGAGGAGG 300  
DB 241 TACCCCTGGCCCTTATATGGGAATGAGGCTGCGGCTGGGAGGAGGAGGAGGAGGAGGAGG 300  
QY 301 CGCGCTCTCGCCCTGCTGGGGGCCAAATGACCCCGCGGAGG 345  
DB 301 CGCGCTCTCGCCCTGCTGGGGGCCAAATGACCCCGCGGAGG 345

## RESULT 11

US-08-290-665A-137  
; Sequence 137, Application US/08290665A  
; Patent No. 5882852  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; APPLICANT: PURCELL, R.H.  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/290,665A  
; FILING DATE: 15-AUG-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: RICHARD W. BORK  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; TELEX: 421792  
; INFORMATION FOR SEQ ID NO: 137:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 573 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; ORIGINAL SOURCE:  
; ORGANISM: hom sapiens  
; INDIVIDUAL ISOLATE: S2  
US-08-290-665A-137  
Query Match 77.2%; Score 267.2; DB 2; Length 573;  
Best Local Similarity 85.8%; Pred. No. 5.2e-65;  
Matches 296; Conservative 0; Mismatches 49; Indels 0; Gaps 0;  
QY 1 ATGAGCACACTTCCTAAACCAAGAAAGAAACCAAGAAACCAACCAACCCGCGCCACAG 60  
DB 1 ATGAGCACACTTCCTAAACCAAGAAAGAAACCAAGAAACCAACCAACCCGCGCCACAG 60  
QY 61 GACGTTAAGTTCCCGAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 120  
DB 61 GACGTTAAGTTCCCGAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 120  
QY 121 GGGCCCCAGTTGGGTGTCGAGTCCGAGTCCGAGTCCGAGTCCGAGTCCGAGTCCGAGT 180  
DB 121 GGGCCCCAGTTGGGTGTCGAGTCCGAGTCCGAGTCCGAGTCCGAGTCCGAGTCCGAGT 180  
QY 181 AGGCGCAACCCATCCCGAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 240  
DB 181 AGGCGCAACCCATCCCGAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 240  
QY 241 TACCCCTGGCCCTTATATGGGAATGAGGCTGCGGCTGGGAGGAGGAGGAGGAGGAGGAGG 300  
DB 241 TACCCCTGGCCCTTATATGGGAATGAGGCTGCGGCTGGGAGGAGGAGGAGGAGGAGGAGG 300

QY	301	CGGGCTTCGCCCCGTCTGTTGGGCCCAAAATGACCCCGGCAGG	345
Db	301	CGGGTCCCCTCCATCTTGGGGCCAAAATGACCCCGGCAGG	345

RESULT 12  
US-08-290-665A-138  
; Sequence 138, Application US/08290665A  
: Patent No. 5882852

Query Match	77.2%	Score 267.2	DB 2	Length 573
Best Local Similarity	85.8%	Pred. NO. 5.2e-65		
Matches 296	Conservative	0	Mismatches 49	Indels 0
				Gaps 0

Qy 61 GACGTTAAGTTCCTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCAACGCAGG 120

Ph 61 GACGTCAGTTCCCGGCTGCGGACAGATCGTTGGTGGAGTATACGTGTTGGCGGCGCAGG 120

QY	121	GGCCCCCAGTGGGTGTGGTGTGCACTGCGCAAGACTTCCGAGCGGTCCGAACCTCGCGAGT	180
QY	121	GGCCCCCAGTGGGTGTGGTGTGCACTGCGCAAGACTTCCGAGCGGTCCGAACCTCGCGAGT	180
pb	121	GGCCCCCAGTGGGTGTGGTGTGCACTGCGCAAGACTTCCGAGCGGTCCGAACCTCGCGAGT	180

Qy	181	AGGCGCCCAACCATCCCCAGGCGCGCCGAAACCGAGGCGAGGTCTCTGGGCTCAGCCCGG	240
Db	181	CGGCGACAGCCATATCCCAAGGCGCGTTCGAGCGAAGGCGCGTCTCTGGGCTCAGCCTGGG	240

[illegible]

RESULT 13  
 US-08-290-665A-141  
 ; Sequence 141, Application US/08290665A  
 ; Patent No. 5882852  
 ; GENERAL INFORMATION:  
 ; APPLICANT: BUKH, J., MILLER, R.H. AND  
 ; APPLICANT: PURCELL, R.H.  
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
 ; NUMBER OF SEQUENCES: 263  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: MORGAN & FINNEGAN  
 ; STREET: 345 PARK AVENUE  
 ; CITY: NEW YORK  
 ; STATE: NEW YORK  
 ; COUNTRY: USA  
 ; ZIP: 10154  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: FLOPPY DISK  
 ; COMPUTER: IBM PC COMPATIBLE  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: WORDPERFECT 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/290,665A  
 ; FILING DATE: 15-AUG-1994  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: RICHARD W. BORK  
 ; REGISTRATION NUMBER: 36,459  
 ; REFERENCE/DOCKET NUMBER: 2026-4116  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (212) 758-4800  
 ; TELEFAX: (212) 751-6849  
 ; TELEX: 421792  
 ; INFORMATION FOR SEQ ID NO: 141:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 573 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: homosapiens  
 ; INDIVIDUAL ISOLATE: Z1  
 ; US-08-290-665A-141

Query Match	77.2%	Score 267.2;	DB 2;	Length 573;
Best Local Similarity	85.8%	Pred. No. 5.2e-65;		
Matches 296; Conservative	0;	Mismatches 49;	Indels 0;	Gaps 0;

Qy	61	GACGTTAAAGTTCCCAAGCGCGCGGTGAGATCGTTGGTGAAGTTTACGTGTACACGCGAGG	120
Nb	61	GATGTGAATTTCCCGGGCGCGGCGGCGAGATCGTTGGCGAGATTACTTGTGTGCCGCGCAGG	120

Accession	Sequence	Position
Qy	GGCCCCAGTTGGGTGTCGGTGCAGTGCAGACCTTCGAGCGGTGCACAACTTCGCAGT	180
Dh	GGCCCCCGGTTGGGTGTGGCGGAGCTCGGAAGACTTCGAGCGGTGCACAACTTCGTGC	180

```
QY 181 AGGCCCAACCATCCAGGCGCGCGAACCAGGAGGCTCTGGGCTCAGCCGGG 240
Db 181 AGCGCTCAGCCTATATCCCAAGCGCGCGTCCGAGGCGAGGCTCTGGGCTCAGCCGGG 240
QY 241 TACCCCTGGCCCTATATATGGGAATGAGGGCTGCGGGTGGGAGGAGGCTCTGTCCCG 300
Db 241 TACCCCTGGCCCTTTACGGCNAATGAGGGCTGTGGGTGGGAGGAGGCTCTGTCCCG 300
QY 301 CGCGGCTCTCGCCCTCTGTGGGGCCCAATGACACCCCGCGGAGG 345
Db 301 CGCGGCTTCAGGCGCTCTGTGGGGCCCAATGATCCCGCGGTAGG 345

RESULT 14
PCT-US95-10398-135
; Sequence 135, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 135:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-135

Query Match 77.2%; Score 267.2; DB 5; Length 573;
Best Local Similarity 85.8%; Pred. No. 5.2e-65;
Matches 296; Conservative 0; Mismatches 49; Indels 0; Gaps 0;
QY 1 ATGAGCACACTTCTCTAAACCAAGAAAAACCAAAAGAAACACCATCCGTCGCCACAG 60
```

```
Db 1 ATGAGCACACTTCTCTAAACCAAGAAAAACCAAAAGAAACACCATCCGTCGCCACAG 60
QY 61 GACGTTAAGTTCCAGCGCGGCTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGCGAG 120
Db 61 GACGTTAAGTTCCCGGTGGCGACAGATCGTTGGTGGAGTATACGTGTTGCCGCGGAG 120
QY 121 GGCCCCCAGTTGGGTGTGCGTGCAGTGCAGAACTTCCGAGCGGTGCGCAACCTTCGCAGT 180
Db 121 GGCCCCCAGTTGGGTGTGCGGCGACGCGTAAACTTCTGAAACGTCGACGCTCGCGGA 180
QY 181 AGCGCCCAACCCATCCCGAGGCGCGCGAACCGAGGCGAGGTCTGGGTTCAGCCCGGG 240
Db 181 CGACGACAGCTATCCCAAGGCGGTGCGAGCGGAGCGGTCCTGGGCTCAGCCCGGG 240
QY 241 TACCCCTGGCCCTATATATGGGAATGAGGGCTGCGGGTGGGAGGAGGCTCTGTCCCG 300
Db 241 TACCCCTGGCCCTCTATATGTAACGAGGGCTGCGGGTGGGAGGATGGCTCTGTCCCA 300
QY 301 CGCGGCTCTCGCCCTCTGTGGGGCCCAATGACACCCCGCGGAGG 345
Db 301 CGCGGCTCCGTCATCTTGGGGCCCAACGACCCCGCGGAGCG 345

RESULT 15
PCT-US95-10398-137
; Sequence 137, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 137:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
```





**THIS PAGE BLANK (USPTO)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 26, 2005, 03:52:16 ; Search time 2142 Seconds  
(without alignments)  
1044.506 Million cell updates/sec

Title: US-09-873-224B-147

Perfect score: 346

Sequence: 1 atgagcacacttctaacc.....aaatgaccccggcgcagga 346

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq.\*

2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq.\*

3: /cgn2\_6/ptodata/2/pubpna/US05\_NEW\_PUB.seq.\*

4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq.\*

5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*

6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq.\*

7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*

8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq.\*

9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq.\*

10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*

11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*

12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*

13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*

14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*

15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*

16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq.\*

17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq.\*

18: /cgn2\_6/ptodata/2/pubpna/US10F\_PUBCOMB.seq.\*

19: /cgn2\_6/ptodata/2/pubpna/US10G\_PUBCOMB.seq.\*

20: /cgn2\_6/ptodata/2/pubpna/US10H\_PUBCOMB.seq.\*

21: /cgn2\_6/ptodata/2/pubpna/US10I\_PUBCOMB.seq.\*

22: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*

23: /cgn2\_6/ptodata/2/pubpna/US11A\_PUBCOMB.seq.\*

24: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq.\*

25: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*

26: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	345	99.7	346	10	US-09-899-046-147
2	345	99.7	346	10	US-09-878-281-147
3	334	96.5	345	10	US-09-873-224-147
4	298	86.1	309	9	US-09-851-138-49
5	272.6	78.8	652	9	US-09-851-138-59
6	271.2	78.4	499	10	US-09-899-046-165
7	271.2	78.4	499	10	US-09-878-281-165

8	271.2	78.4	499	10	US-09-873-224-165
9	270.4	78.2	573	10	US-09-194-949-5
10	270.4	78.2	573	21	US-10-664-391-5
11	264.6	76.5	498	10	US-09-899-046-193
12	264.6	76.5	498	10	US-09-878-281-193
13	264.6	76.5	498	10	US-09-873-224-193
14	264	76.3	499	10	US-09-899-046-163
15	264	76.3	499	10	US-09-878-281-163
16	264	76.3	499	10	US-09-873-224-163
17	264	76.3	2433	9	US-09-973-025-49
18	264	76.3	2433	10	US-09-899-303-49
19	264	76.3	2433	10	US-09-995-808-49
20	264	76.3	2433	10	US-09-995-860-49
21	264	76.3	2433	19	US-09-995-791-49
22	264	76.3	2433	19	US-10-321-798-49
23	262.4	75.8	531	20	US-10-484-112-1
24	262.4	75.8	1953	20	US-10-484-112-3
25	260.8	75.4	360	9	US-09-306-780-3
26	260.8	75.4	843	9	US-09-306-780-7
27	260.8	75.4	843	9	US-09-306-780-11
28	260.8	75.4	9353	20	US-10-475-024-17
29	260.8	75.4	9413	10	US-09-827-688-6
30	260.8	75.4	9413	22	US-10-475-026-17
31	259.8	75.1	957	9	US-09-851-138-11
32	259.2	74.9	378	20	US-10-677-956-13
33	259.2	74.9	480	16	US-10-071-867-15
34	259.2	74.9	9275	15	US-10-259-275-39
35	259.2	74.9	9275	24	US-11-006-313-39
36	257.6	74.5	378	20	US-10-677-956-9
37	257.6	74.5	480	21	US-10-664-038-13
38	257.6	74.5	685	10	US-09-853-409-37
39	257.6	74.5	685	18	US-10-457-304-37
40	257.6	74.5	685	18	US-10-454-293-37
41	257.6	74.5	708	17	US-10-365-620-57
42	257.6	74.5	708	17	US-10-912-969-59
43	257.6	74.5	750	17	US-10-365-620-53
44	257.6	74.5	750	21	US-10-312-969-55
45	257.6	74.5	1380	17	US-10-365-620-59

ALIGNMENTS

RESULT 1

US-09-899-046-147

Sequence 147, Application US/09899046

Publication No. US20030008274A1

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: New sequences of hepatitis C virus

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/899,046

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE:

INFORMATION FOR SEQ ID NO: 147:

SEQUENCE CHARACTERISTICS:

LENGTH: 346 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

FEATURE:

Sequence 165, App

Sequence 5, Appl

Sequence 5, Appl

Sequence 193, App

Sequence 193, App

Sequence 193, App

Sequence 163, App

Sequence 163, App

Sequence 163, App

Sequence 163, App

Sequence 49, Appl

Sequence 49, Appl

Sequence 49, Appl

Sequence 49, Appl

Sequence 49, Appl

Sequence 3, Appl

Sequence 3, Appl

Sequence 7, Appl

Sequence 11, Appl

Sequence 6, Appl

Sequence 17, Appl

Sequence 11, Appl

Sequence 13, Appl

Sequence 15, Appl

Sequence 39, Appl

Sequence 39, Appl

Sequence 9, Appl

Sequence 13, Appl

Sequence 31, Appl

Sequence 31, Appl

Sequence 57, Appl

Sequence 57, Appl

Sequence 53, Appl

Sequence 53, Appl

Sequence 55, Appl

Sequence 59, Appl

```
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
US-09-899-046-147

Query Match      99.7%; Score 345; DB 10; Length 346;
Best Local Similarity 99.7%; Pred. No. 1e-96;
Matches 345; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ATGAGCACACTTCCTTAACCAACAAAGAAAAACCAAAACACCAACCCGCGCCACAG 60
Db 1 ATGAGCACACTTCCTTAACCAACAAAGAAAAACCAAAACACCAACCCGCGCCACAG 60

Qy 61 GACGTTAAGTTCCAGAGCGCGGTGCGTGCAGTCTGTTGGTGGAGTTTACGTCTACCAACGCGAGG 120
Db 61 GACGTTAAGTTCCAGAGCGCGGTGCGTGCAGTCTGTTGGTGGAGTTTACGTCTACCAACGCGAGG 120

Qy 121 GGCCCCCAGTTGGGTGCGTGCAGTGCAGAGACTTCCGAGCGGTGCGAACCTCGCAGT 180
Db 121 GGCCCCCAGTTGGGTGCGTGCAGTGCAGAGACTTCCGAGCGGTGCGAACCTCGCAGT 180

Qy 181 AGGCGCCAAACCCATCCCGAGCGCGCGGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGGG 240
Db 181 AGGCGCCAAACCCATCCCGAGCGCGCGGCGGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGGG 240

Qy 241 TACCCCTTGGCCCCCTATATGGAATGAGGGCTGCGGGTGGGCGAGGTGCTCTGTCGCCG 300
Db 241 TACCCCTTGGCCCCCTATATGGAATGAGGGCTGCGGGTGGGCGAGGTGCTCTGTCGCCG 300

Qy 301 CGCGGCTCTCGCCCGTCTGTTGGGCCCCAAATGACCCCGCGCAGGA 346
Db 301 CGCGGCTCTCGCCCGTCTGTTGGGCCCCAAATGACCCCGCGCAGGA 346
```

```
RESULT 2
US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
US-09-878-281-147
```

```
Query Match      99.7%; Score 345; DB 10; Length 346;
Best Local Similarity 99.7%; Pred. No. 1e-96;
Matches 345; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ATGAGCACACTTCCTTAACCAACAAAGAAAAACCAAAACACCAACCCGCGCCACAG 60
Db 1 ATGAGCACACTTCCTTAACCAACAAAGAAAAACCAAAACACCAACCCGCGCCACAG 60

Qy 61 GACGTTAAGTTCCAGAGCGCGGTGCGTGCAGTCTGTTGGTGGAGTTTACGTCTACCAACGCGAGG 120
Db 61 GACGTTAAGTTCCAGAGCGCGGTGCGTGCAGTCTGTTGGTGGAGTTTACGTCTACCAACGCGAGG 120

Qy 121 GGCCCCCAGTTGGGTGCGTGCAGTGCAGAGACTTCCGAGCGGTGCGAACCTCGCAGT 180
Db 121 GGCCCCCAGTTGGGTGCGTGCAGTGCAGAGACTTCCGAGCGGTGCGAACCTCGCAGT 180

Qy 181 AGGCGCCAAACCCATCCCGAGCGCGCGGCGGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGGG 240
Db 181 AGGCGCCAAACCCATCCCGAGCGCGCGGCGGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGGG 240

Qy 241 TACCCCTTGGCCCCCTATATGGAATGAGGGCTGCGGGTGGGCGAGGTGCTCTGTCGCCG 300
Db 241 TACCCCTTGGCCCCCTATATGGAATGAGGGCTGCGGGTGGGCGAGGTGCTCTGTCGCCG 300

Qy 301 CGCGGCTCTCGCCCGTCTGTTGGGCCCCAAATGACCCCGCGCAGGA 346
Db 301 CGCGGCTCTCGCCCGTCTGTTGGGCCCCAAATGACCCCGCGCAGGA 346
```

```
RESULT 3
US-09-873-224-147
; Sequence 147, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Imogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 345 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..345
; FEATURE:
```

```
;
; NAME/KEY: mat_peptide
; LOCATION: 1,342
; SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147

Query Match      96.5%; Score 334; DB 10; Length 345;
Best Local Similarity 99.7%; Pred. No. 2.6e-93;
Matches 345; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACCAAGAAAGAAACCAAAAGAAACCAACCAACCAACCGGCCACAG 60
   |||||
Db 1 ATGAGCACACTTCCTAAACCAAGAAAGAAACCAAAAGAAACCAACCAACCGGCCACAG 59

QY 61 GACGTTAAGTTCCAGAGCGCGGTGAGATCGTTGGTGAGTTACGTGCTACCAAGCAGG 120
   |||||
Db 60 GACGTTAAGTTCCAGAGCGCGGTGAGATCGTTGGTGAGTTACGTGCTACCAAGCAGG 119

QY 121 GCGCCCAAGTTGGGTGTCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGT 180
   |||||
Db 120 GCGCCCAAGTTGGGTGTCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGT 179

QY 181 AGGCGCCCAACCATCCAGAGCGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGG 240
   |||||
Db 180 AGGCGCCCAACCATCCAGAGCGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGG 239

QY 241 TACCCCTTGGCCCCCTATATGGGAATGAGGCTGCGGCGTGGCGAGGTGCTCTGTCCCG 300
   |||||
Db 240 TACCCCTTGGCCCCCTATATGGGAATGAGGCTGCGGCGTGGCGAGGTGCTCTGTCCCG 299

QY 301 CGCGGCTCTCGCGCGTCTGTTGGGCGCCAAATGACCCCGCGCGCAGGA 346
   |||||
Db 300 CGCGGCTCTCGCGCGTCTGTTGGGCGCCAAATGACCCCGCGCGCAGGA 345

RESULT 4
US-09-851-138-49
; Sequence 49, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
```

```
;
; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-851-138-49

Query Match      86.1%; Score 298; DB 9; Length 309;
Best Local Similarity 99.7%; Pred. No. 3.5e-82;
Matches 309; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACCAAGAAAGAAACCAAAAGAAACCAACCAACCGGCCACAG 60
   |||||
Db 1 ATGAGCACACTTCCTAAACCAAGAAAGAAACCAAAAGAAACCAACCAACCGGCCACAG 59

QY 61 GACGTTAAGTTCCAGAGCGCGGTGAGATCGTTGGTGAGTTACGTGCTACCAAGCAGG 120
   |||||
Db 60 GACGTTAAGTTCCAGAGCGCGGTGAGATCGTTGGTGAGTTACGTGCTACCAAGCAGG 119

QY 121 GCGCCCAAGTTGGGTGTCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGT 180
   |||||
Db 120 GCGCCCAAGTTGGGTGTCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGT 179

QY 181 AGGCGCCCAACCATCCAGAGCGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGG 240
   |||||
Db 180 AGGCGCCCAACCATCCAGAGCGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGG 239

QY 241 TACCCCTTGGCCCCCTATATGGGAATGAGGCTGCGGCGTGGCGAGGTGCTCTGTCCCG 300
   |||||
Db 240 TACCCCTTGGCCCCCTATATGGGAATGAGGCTGCGGCGTGGCGAGGTGCTCTGTCCCG 299

QY 301 CGCGGCTCTC 310
   |||||
Db 300 CGCGGCTCTC 309

RESULT 5
US-09-851-138-59
; Sequence 59, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
```

%	NAME:	KAMMERER, PATRICIA A.
%	REGISTRATION NUMBER:	29,775
%	REFERENCE/DOCKET NUMBER:	INNS:004
%	INFORMATION FOR SEQ ID NO:	59:
%	SEQUENCE CHARACTERISTICS:	
%	LENGTH:	652 base pairs
%	TYPE:	nucleic acid
%	STRANDEDNESS:	single
%	TOPOLOGY:	linear
%	MOLECULE TYPE:	cDNA
%	HYPOTHETICAL:	NO
%	ANTI-SENSE:	NO
%	SEQUENCE DESCRIPTION:	SEQ ID NO: 59:
%	US-09-851-138-59	
Query Match                  78.8%; Score 272.6; DB 9; Length 652;		
Best Local Similarity        86.7%; Pred. No. 2.8e-74;		
Matches 299; Conservative 0; Mismatches 46; Indels 0; Gaps 0		
Qy	1	ATGAGCACACTCTCTAAACCAAGAATAAACCCTAACCTTAAAGAAAACCAAAGGAACAACCCACCAACCGGCCGCACAG 60
Dd	239	ATGAGCAGCATCTCTTAACCTTAAAGAAAACCAAAGGAACAACCAACCGGCCGCACAG 298
Qy	61	GACGTTAGTTCCAGGGCGGTTCAGATCGTTGGTGAGTTTTACGTGTACCAACGCAGG 120
Dd	299	GACGTCAAGTTCCGGGCGGTGGCCAGATCGTTGGTGAGTCTACGTGTACCGGCAGG 358
Qy	121	GGCCCCAGTTGGGTGTGCGGTGCAGTGCGAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180
Dd	359	GGCCCTAGATTGGGTGTGCGCGCAGCGCGGAGACTTCGGAGCGGTCCGAACTCGTGGG 418
Qy	181	AGGCGCCAACCCATCCCAGGGCGCGCGAACCAGAGGCAGGTCTCTGGGTTCAGCCCGGG 240
Dd	419	AGGCGCCAACCTATTTCCAAAGGAGCGCGCATCCCGAGGGCAGGTCTCTGGSCGAGCCCGGG 478
Qy	241	TACCCTTGGCCCCCTATATGGGAATGAGGGCTCGGGGTGGCGAGGTGCTCTGTGCCCG 300
Dd	479	TACCCCTGGCCCCCTCTATTGGTAA CGAGGGCTCGGGTGGGACAGTNGGCTCTGTGCCCT 538
Qy	301	CGGGCTCTCGCCCGTCTGGGGGCCAAATGACCCCCGGCGAG 345
Dd	539	CGGGCTCTCCGCTCTAGTTGGGGTCTACTGACCCCGCGCTAGG 583

## RESULT 6

US-09-899-046-165  
Sequence 165, Application US/09899046  
Publication No. US20030008274A1  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: New sequences of hepatitis C virus  
TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy  
NUMBER OF SEQUENCES: 270  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/899,046  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE:  
INFORMATION FOR SEQ ID NO: 165:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 499 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO

## RESULT 7

US-09-878-281-165  
; Sequence 165, Application US/09878281  
; Publication No. US20030032005A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TYPE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/878,281  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE:  
; INFORMATION FOR SEQ ID NO: 165:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 499 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHEetical: NO  
; ANTI-SENSE: NO  
US-09-878-281-165

	Query Match	78.4%	Score 271.2	DB 10	Length 499
	Best Local Similarity	86.3%	Pred. No. 7.3e-74		
	Matches 297	Conservative 0	Mismatches 47	Indels 0	Gaps 0
Qy	1	ATGAGCACATTCCTTAAACCAAGAAAAACCAAAAGAAACCAACCCNCCGCCACAG	60		
Db	1	ATGAGCAGAACTCCTAAACCTCAAGAAAAACCAACGTAACCAACCCGCCCTATG	60		
Qy	61	GACGTTAAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGTACCAACGAGG	120		
Db	61	GACGTTAAAGTTCACAGCGGTGGTTCAGATCGTTGGCGGAGTTTACTTGTTGCCCGCAGG	120		

QY 121 GGCCCCCAGTTGGGTGTCGTCAGTCCGCAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180  
DB 121 GGCCCCCAGTTGGGTGTCGTCAGTCCGCAAGACTTCCGAGCGGTCCGAACCTCGTGGG 180  
QY 181 AGGCCCAACCCATCCCGAGCGCGCGAACCAGAGGCGAGTCTGGGCTCAGCCCGGG 240  
DB 181 AGGCCCAACCTATCCCCAAGCGCGCGAACCAGAGGCGAGTCTGGGCGAGCCCGGG 240  
QY 241 TACCTTGGCCCCCTATATGGGAATGAGGCTGCGGGTGGGCGAGGTGCTCTGTCCCG 300  
DB 241 TATCCTTGGCCCCCTTACGGCAATGAGGCTGTGGGTGGGCGAGGTGCTCTGTCCCT 300  
QY 301 CGCGCTCTCGCCCTGTGGGGCCCAATGACCCCGCGCGAG 344  
DB 301 CGCGNTCTCGNCGTCTTGGGGCCCCCAATGATCCCCGGNGAG 344

## RESULT 8

US-09-873-224-165  
; Sequence 165, Application US/09873224  
; Publication No. US20030064360A1  
; GENERAL INFORMATION:  
; APPLICANT: <Unknown>  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; ; ; ; ; genotypes for diagnosis, prophylaxis and therapy.  
; ; ; ; ;  
; NUMBER OF SEQUENCES: 270  
; CORRESPONDENCE ADDRESS:  
; STREET: Industriepark Zwijnaarde 7, box 4  
; CITY: Ghent  
; COUNTRY: Belgium  
; ZIP: B-9052

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/873,224  
; FILING DATE: 05-Jun-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Innogenetics sa.  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 00 32 9 241 07 11  
; TELEFAX: 00 32 9 241 07 99

SEQUENCE CHARACTERISTICS:  
; INFORMATION FOR SEQ ID NO: 165:  
; LENGTH: 499 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO

SEQUENCE DESCRIPTION: SEQ ID NO: 165:  
US-09-873-224-165

Query Match 78.4%; Score 271.2; DB 10; Length 499;  
Best Local Similarity 86.3%; Pred. No. 7.3e-74;  
Matches 297; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCTAAACCAACAAAGAAAAACCAAAAGAAAAACCAACACCCGCGCCACAG 60  
DB 1 ATGAGCACGAATCCTAAACCTCAAGAAAAACCAACAAACGTAACACCAACCGCGCCCTATG 60  
QY 61 GACGTTAAGTTCACAGGCGCGGTGAGATCGTTGGTGGAGTTACGTGTACACGAGG 120  
DB 61 GACGTTAAGTTCACAGGCGGTGAGATCGTTGGGCGAGTTTACTTGTTCGCGCAGG 120

QY 121 GGCCCCCAGTTGGGTGTCGTCAGTCCGCAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180  
DB 121 GGCCCCCAGTTGGGTGTCGTCAGTCCGCAAGACTTCCGAGCGGTCCGAACCTCGTGGG 180  
QY 181 AGGCCCAACCCATCCCGAGCGCGCGAACCAGAGGCGAGTCTGGGCTCAGCCCGGG 240  
DB 181 AGGCCCAACCTATCCCCAAGCGCGCGAACCAGAGGCGAGTCTGGGCGAGCCCGGG 240  
QY 241 TACCTTGGCCCCCTATATGGGAATGAGGCTGCGGGTGGGCGAGGTGCTCTGTCCCG 300  
DB 241 TATCCTTGGCCCCCTTACGGCAATGAGGCTGTGGGTGGGCGAGGTGCTCTGTCCCT 300  
QY 301 CGCGCTCTCGCCCTGTGGGGCCCAATGACCCCGCGCGAG 344  
DB 301 CGCGNTCTCGNCGTCTTGGGGCCCCCAATGATCCCCGGNGAG 344

## RESULT 9

US-09-194-949-5  
; Sequence 5, Application US/09194949  
; Publication No. US20030053987A1  
; GENERAL INFORMATION:  
; APPLICANT: Merck & Co., Inc.  
; APPLICANT: Donnelly, John J.  
; APPLICANT: Fu, Tong-Ming  
; APPLICANT: Liu, Margaret A.  
; APPLICANT: Shiver, John W.

TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES  
; FILE REFERENCE: 19732YP  
; CURRENT APPLICATION NUMBER: US/09/194,949  
; CURRENT FILING DATE: 2000-02-17  
; PRIOR APPLICATION NUMBER: PCT/US97/09884  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/020,494  
; PRIOR FILING DATE: 1996-06-11  
; PRIOR APPLICATION NUMBER: 60/033,534  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 573  
; TYPE: DNA  
; ORGANISM: Hepatitis C Virus

US-09-194-949-5

Query Match 78.2%; Score 270.4; DB 10; Length 573;  
Best Local Similarity 86.4%; Pred. No. 1.3e-73;  
Matches 298; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCTAAACCAACAAAGAAAAACCAAAAGAAAAACCAACACCCGCGCCACAG 60  
DB 1 ATGAGCACGAATCCTAAACCTCAAGAAAAACCAACAAACGTAACACCAACCGCGCCACAG 60

QY 61 GACGTTAAGTTCACAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGAGG 120  
DB 61 GACGTTAAGTTCACAGGCGGTGAGATCGTTGGTGGAGTTTACTTGTTCGCGCAGG 120

QY 121 GGCCCCCAGTTGGGTGTCGTCAGTCCGCAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180  
DB 121 GGCCCCCAGTTGGGTGTCGTCAGTCCGCAAGACTTCCGAGCGGTCCGAACCTCGTGA 180

QY 181 AGGCCCAACCCATCCCGAGCGCGCGAACCAGAGGCGAGTCTGGGCTCAGCCCGGG 240  
DB 181 AGGCCACAGCTATATCCCCAAGGCTCGCGCGCCCGAGGCGAGTCTGGGCTCAGCCCGGG 240

QY 241 TACCTTGGCCCCCTATATGGGAATGAGGCTGCGGGTGGGCGAGGTGCTCTGTCCCG 300  
DB 241 TACCTTGGCCCCCTATATGGCAATGAGGCTTCGGGTGGGCGAGGTGCTCTGTCCCC 300

QY 301 CGCGCTCTCGCCCTGTGGGGCCCAATGACCCCGCGCGAG 345  
DB 301 CGCGCTCTCGGCTTAGTTGGGGCCCCCACTGACCCCGCGCGAGG 345







```
;
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..499
; FEATURE:
; NAME/KEY: mat.peptide
; LOCATION: 1..496
US-09-899-046-163

Query Match      76.3%; Score 264; DB 10; Length 499;
Best Local Similarity 85.2%; Pred. No. 1.2e-71;
Matches 294; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

Qy      1 ATGAGCACACTTCCTAAACCAAAAGAAAAACCAAAAGAAACCAACCAACCCGCGCCACAG 60
Db      1 ATGAGCACGAATCCTAAACTTCAAAGAAAAACCAACGTAACCAACCCGCGCCCATG 60

Qy      61 GACGTTAAGTTCCAGGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACCAACGCGAG 120
Db      61 GACGTTAAGTTCCCGGGTGGTGGCCAGATCGTTGGCGAGTTTACTTTGTCGCGCGAGG 120

Qy      121 GGCCCCCAGTTGGGTGTCGAGTCCGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 180
Db      121 GGCCCCTAGTTGGGTGTCGCGCGACTTCGGAAGACTTTCGAGGCGAGATCCTGGGCGCAG 180

Qy      181 AGGCGCCAAACCTATCCCAAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGGG 240
Db      181 AGGCGCCAACTATATATGGGAATAGAGGCTGCGGGTGGGCGAGGCTCTCTGTCCTCC 240

Qy      241 TACCTTGGCCCCCTATATGGGAATAGAGGCTGCGGGTGGGCGAGGCTCTCTGTCCTCC 300
Db      241 TATCCTTGGCCCCCTTTACGGCAATAGAGGCTGTGGTGGGCGAGGCTCTCTGTCCTCC 300

Qy      301 CGCGGCTCTCGCGCGTCTGCGGGCCAAATGACCCCGCGCAGG 345
Db      301 CGCGGCTCTCGCGCGTCTTGGGGCCCTAATGATCCCCGGCGAGG 345
```

```
RESULT 15
US-09-878-281-163
; Sequence 163, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 163:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..499
```

```
;
; FEATURE:
; NAME/KEY: mat.peptide
; LOCATION: 1..496
US-09-878-281-163

Query Match      76.3%; Score 264; DB 10; Length 499;
Best Local Similarity 85.2%; Pred. No. 1.2e-71;
Matches 294; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

Qy      1 ATGAGCACACTTCCTAAACCAAAAGAAAAACCAAAAGAAACCAACCCGCGCCACAG 60
Db      1 ATGAGCACGAATCCTAAACTTCAAAGAAAAACCAACGTAACCAACCCGCGCCCATG 60

Qy      61 GACGTTAAGTTCCAGGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACCAACGCGAG 120
Db      61 GACGTTAAGTTCCCGGGTGGTGGCCAGATCGTTGGCGAGTTTACTTTGTCGCGCGAGG 120

Qy      121 GGCCCCCAGTTGGGTGTCGAGTCCGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 180
Db      121 GGCCCCTAGTTGGGTGTCGCGCGACTTCGGAAGACTTTCGAGGCGAGATCCTGGGCGCAG 180

Qy      181 AGGCGCCAAACCTATCCCAAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGGG 240
Db      181 AGGCGCCAACTATATATGGGAATAGAGGCTGCGGGTGGGCGAGGCTCTCTGTCCTCC 240

Qy      241 TACCTTGGCCCCCTATATGGGAATAGAGGCTGCGGGTGGGCGAGGCTCTCTGTCCTCC 300
Db      241 TATCCTTGGCCCCCTTTACGGCAATAGAGGCTGTGGTGGGCGAGGCTCTCTGTCCTCC 300

Qy      301 CGCGGCTCTCGCGCGTCTGCGGGCCAAATGACCCCGCGCAGG 345
Db      301 CGCGGCTCTCGCGCGTCTTGGGGCCCTAATGATCCCCGGCGAGG 345
```

Search completed: July 26, 2005, 06:28:53  
Job time : 2143 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: July 26, 2005, 06:29:03 ; Search time 50 Seconds  
(without alignments)

1033.143 Million cell updates/sec

Title: US-09-873-224B-147

Perfect score: 638

Sequence: 1 atgagcacactctctaaacc.....aaatgaccccgccgcagga 346

Scoring table:

BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 1027090

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+u2p.model -DEV=xlh  
-Q=/cgn2\_1/USPTO.spool/US09873224/runat\_22072005\_171148\_26524/app\_query.fasta\_1.519  
-DB=Issued Patents AA -QWMT=fastan -SUFFIX=rai -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=200000000  
-USER=US09873224 @CGN\_1\_1\_30 @runat\_22072005\_171148\_26524 -NCPU=6 -ICPU=3  
-NO WMAP -LARGESQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/iaa/5A COMB.pcp:\*  
2: /cgn2\_6/ptodata/1/iaa/5B COMB.pcp:\*  
3: /cgn2\_6/ptodata/1/iaa/6A COMB.pcp:\*  
4: /cgn2\_6/ptodata/1/iaa/6B COMB.pcp:\*  
5: /cgn2\_6/ptodata/1/iaa/PCITUS COMB.pcp:\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pcp:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	637	99.8	115	3	US-08-836-075A-50
2	609	95.5	191	2	US-08-290-665A-187
3	609	95.5	191	2	US-08-290-665A-188
4	609	95.5	191	2	US-08-290-665A-190
5	609	95.5	191	5	PCT-US95-10398-187
6	609	95.5	191	5	PCT-US95-10398-188
7	609	95.5	191	5	PCT-US95-10398-190
8	608	95.3	191	2	US-08-290-665A-189
9	608	95.3	191	5	PCT-US95-10398-189
10	603	94.5	191	2	US-08-290-665A-192
11	603	94.5	191	2	US-08-290-665A-193
12	603	94.5	191	2	US-08-290-665A-195

13	603	94.5	191	5	PCT-US95-10398-192	Sequence 192, App
14	603	94.5	191	5	PCT-US95-10398-193	Sequence 193, App
15	603	94.5	191	5	PCT-US95-10398-195	Sequence 195, App
16	602	94.0	120	4	US-08-931-855B-14	Sequence 14, Appl
17	600	94.0	319	3	US-08-836-075A-12	Sequence 12, Appl
18	600	94.0	319	4	US-08-635-886C-199	Sequence 199, App
19	600	94.0	319	4	US-08-974-690C-199	Sequence 199, App
20	599	93.9	191	2	US-08-290-665A-196	Sequence 196, App
21	599	93.9	191	5	PCT-US95-10398-196	Sequence 196, App
22	598	93.7	450	4	US-08-635-886C-181	Sequence 181, App
23	598	93.7	450	4	US-08-974-690C-181	Sequence 181, App
24	598	93.7	2894	2	US-08-466-975A-23	Sequence 23, Appl
25	598	93.7	2894	2	US-08-391-671A-23	Sequence 23, Appl
26	598	93.7	2894	3	US-08-467-902A-23	Sequence 23, Appl
27	598	93.7	2894	3	US-09-275-265-23	Sequence 23, Appl
28	598	93.7	2894	4	US-09-941-611-23	Sequence 23, Appl
29	597	93.6	120	4	US-08-931-855B-10	Sequence 10, Appl
30	597	93.6	182	4	US-10-104-966-2	Sequence 2, Appl
31	597	93.6	191	2	US-08-290-665A-156	Sequence 156, App
32	597	93.6	191	2	US-08-290-665A-157	Sequence 157, App
33	597	93.6	191	2	US-08-290-665A-158	Sequence 158, App
34	597	93.6	191	2	US-08-290-665A-159	Sequence 159, App
35	597	93.6	191	2	US-08-290-665A-160	Sequence 160, App
36	597	93.6	191	2	US-08-290-665A-191	Sequence 191, App
37	597	93.6	191	2	US-08-290-665A-197	Sequence 197, App
38	597	93.6	191	3	US-08-380-160-3	Sequence 3, Appl
39	597	93.6	191	5	PCT-US95-10398-156	Sequence 156, App
40	597	93.6	191	5	PCT-US95-10398-157	Sequence 157, App
41	597	93.6	191	5	PCT-US95-10398-158	Sequence 158, App
42	597	93.6	191	5	PCT-US95-10398-159	Sequence 159, App
43	597	93.6	191	5	PCT-US95-10398-160	Sequence 160, App
44	597	93.6	191	5	PCT-US95-10398-191	Sequence 191, App
45	597	93.6	191	5	PCT-US95-10398-197	Sequence 197, App

ALIGNMENTS

RESULT 1

US-08-836-075A-50  
; Sequence 50, Application US/08836075A  
; Patent No. 6180768

; GENERAL INFORMATION:  
; APPLICANT: MAERTENS, GEERT

; APPLICANT: STUYVER, LIEVEN  
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; TITLE OF INVENTION: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836.075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

```
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS.004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-836-075A-50

Alignment Scores:
Pred. No.: 3.13e-52 Length: 115
Score: 637.00 Matches: 115
Percent Similarity: 100.00% Conservativeness: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.84% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-836-075A-50 (1-115)
QY 1 ATGAGCACATCTCTAAACCAAGAAAAACCAAAAGAAAAACCAACCCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGGTCAGATCTTGGTGGAGTTTACGTGCTACCCAGCAGG 120
DB 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTTGGGTGTCGTCAGTGGCGAAGACTTCCGAGCGGTCCCAACCTCGCAGT 180
DB 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGCGCCCAACCCATCCCGCGCGCGCGAACCAGGCGCAGGTCTGGGCTCAGCCCGG 240
DB 61 ArgArgGlnProLysProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTGCGGTGGCGAGGTGCTGCTCTCCCG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCGCCGCTCTGTCGGGCGCAATGACCCCGCGCAGG 345
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 2
US-08-290-665A-187
; Sequence 187, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; CORRESPONDENCE ADDRESS:
; NUMBER OF SEQUENCES: 263
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
```

```
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: hom sapiens
; INDIVIDUAL ISOLATE: HK10
US-08-290-665A-187

Alignment Scores:
Pred. No.: 1.48e-49 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservativeness: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-187 (1-191)
QY 1 ATGAGCACATCTCTAAACCAAGAAAAACCAAAAGAAAAACCAACCCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLysArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGGTCAGATCTTGGTGGAGTTTACGTGCTACCCAGCAGG 120
DB 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTTGGGTGTCGTCAGTGGCGAAGACTTCCGAGCGGTCCCAACCTCGCAGT 180
DB 41 GlyProArgLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCCATCCCGCGCGCGCGAACCAGGCGCAGGTCTGGGCTCAGCCCGG 240
DB 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTGCGGTGGCGAGGTGCTGCTCTCCCG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCGCCGCTCTGTCGGGCGCAATGACCCCGCGCAGG 345
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 3
US-08-290-665A-188
; Sequence 188, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; CORRESPONDENCE ADDRESS:
; NUMBER OF SEQUENCES: 263
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
```

ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 188:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 191 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
ORIGINAL SOURCE:  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: S52  
US-08-290-665A-188

Alignment Scores:  
Pred. No.: 1,48e-49 Length: 191  
Score: 609.00 Matches: 108  
Percent Similarity: 96.52% Conservative: 3  
Best Local Similarity: 93.91% Mismatches: 4  
Query Match: 95.45% Indels: 0  
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-188 (1-191)

QY 1 ATGAGCACATCTCTAAACCAACAAAGAAAAACCAACCAACCAACCGGCCACAG 60  
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20  
QY 61 GACGTTAAGTTCACAGCGCGGTCCAGATCGTTGGTGGAGTTACGTGCTACACGACAG 120  
DB 21 AspValLysPheProGlyGlyGlnIleValGlyValValLeuProArgArg 40  
QY 121 GCGCCCAACCCATCCCAAGCGCGGTCCAGTCCGAGACTTCCGAGCGGTCCGACCTCGCAGT 180  
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60  
QY 181 AGGCGCCCAACCCATCCCAAGCGCGGTCCAGTCCGAGCGGTCCGACCTCGCAGT 240  
DB 61 ArgArgGlnProIleProLysAlaArgSerGluGlyValArgSerTrpAlaGlnProGly 80  
QY 241 TACCTTGGCCCTATATGGAAATAGGGCTCGCGGTGGGCGGAGGTCTCTGCTCCCGG 300  
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
QY 301 CGCGGCTCTCGCCCGTCTGGGGCCCAATGACCCCGCGCGAGG 345  
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 4

US-08-290-665A-190  
Sequence 190. Application US/08290665A  
Patent No. 582852  
GENERAL INFORMATION:  
APPLICANT: BUKH, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 190:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 191 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
ORIGINAL SOURCE:  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: DK12  
US-08-290-665A-190

Alignment Scores:  
Pred. No.: 1,48e-49 Length: 191  
Score: 609.00 Matches: 108  
Percent Similarity: 96.52% Conservative: 3  
Best Local Similarity: 93.91% Mismatches: 4  
Query Match: 95.45% Indels: 0  
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-190 (1-191)

QY 1 ATGAGCACATCTCTAAACCAACAAAGAAAAACCAACCAACCAACCGGCCACAG 60  
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20  
QY 61 GACGTTAAGTTCACAGCGCGGTCCAGATCGTTGGTGGAGTTACGTGCTACACGACAG 120  
DB 21 AspValLysPheProGlyGlyGlnIleValGlyValValLeuProArgArg 40  
QY 121 GCGCCCAACCCATCCCAAGCGCGGTCCAGTCCGAGACTTCCGAGCGGTCCGACCTCGCAGT 180  
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60  
QY 181 AGGCGCCCAACCCATCCCAAGCGCGGTCCAGTCCGAGCGGTCCGACCTCGCAGT 240  
DB 61 ArgArgGlnProIleProLysAlaArgSerGluGlyValArgSerTrpAlaGlnProGly 80  
QY 241 TACCTTGGCCCTATATGGAAATAGGGCTCGCGGTGGGCGGAGGTCTCTGCTCCCGG 300  
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
QY 301 CGCGGCTCTCGCCCGTCTGGGGCCCAATGACCCCGCGCGAGG 345  
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 5

```

PCT-US95-10398-187
; Sequence 187, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-187

Alignment Scores:
Pred. No.: 1,48e-49 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 5 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-187 (1-191)

Qy 1 ATGAGCACATCTCTTAACCAAGAAAAACCAAGAAACACCAACCCGCGCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
Qy 61 GACGTAAAGTCCACAGCGCGGTACAGATCGTGTGGAGTTACGTGCTACACGACGAG 120
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
Qy 121 GGCCCCCAGTGGGTGTGGTGCAGTGCAGACGCTCCGAGCGGTCCCAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

PCT-US95-10398-188
; Sequence 188, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-188

Alignment Scores:
Pred. No.: 1,48e-49 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 5 Gaps: 0

Qy 181 AGCGCCACACCCATCCCGAGCGCGCCGAAACGAGGCGAGGTCTGGGTCTAGCCCGG 240
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
Qy 241 TACCCTTGGCCCTATATGGAATGAGGGTGCGGGTGGCGAGGTGGCTCTCTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 301 CGGGGCTCTCGCCGCTCGTGGGCCCCAAATGACCCCCGGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 6
PCT-US95-10398-188
; Sequence 188, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-188

Alignment Scores:
Pred. No.: 1,48e-49 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 5 Gaps: 0

```

```
US-09-873-224B-147 (1-346) x PCT-US95-10398-188 (1-191)
QY 1 ATGAGCACATTCCTTAACACCAAGAAACCAACCAACCAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
QY 61 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCTACCAACGAGG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCGAGTTGGTGTGCGTGCAGTGGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCCAAACATCCCGAGCGCGCGGCGAAGACCCGAGGCGGTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTGCGGCGGCGAGGCGGTCTCTGTCGCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCCCGCTCTGTCGGGCGCAAAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 7
PCT-US95-10398-190
; Sequence 190, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid

; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homospapiens
; INDIVIDUAL ISOLATE: DK12
; PCT-US95-10398-190
Alignment Scores:
Pred. No.: 1.48e-49 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 5 Gaps: 0
US-09-873-224B-147 (1-346) x PCT-US95-10398-190 (1-191)
QY 1 ATGAGCACATTCCTTAACACCAAGAAACCAACCAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
QY 61 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCTACCAACGAGG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCGAGTTGGTGTGCGTGCAGTGGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCCAAACATCCCGAGCGCGCGGCGAAGACCCGAGGCGGTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTGCGGCGGCGAGGCGGTCTCTGTCGCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCCCGCTCTGTCGGGCGCAAAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 8
US-08-230-665A-189
; Sequence 189, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
```





TITLE OF INVENTION:	CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION:	AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION:	SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES:	263

Alignment Scores:	
Pred. No.:	5,43e-49
Score:	603.00
Percent Similarity:	95.65%
Best Local Similarity:	92.17%
Query Match:	94.51%
DB:	2
Length:	191
Matches:	106
Conservative:	4
Mismatches:	5
Indels:	0
Gaps:	0

Qy 241 TACCTTGGCCCTATATGGAATGACGGCTGCGGTGGGAGGCTGCTCTCTCCCG 300  
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
Qy 301 CGCGGCTCTCCCGCTGCTGGGGGCCAAATGACCCCGGCGCAGG 345  
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 12  
US-08-290-665A-195  
; Sequence 195, Application US/08290665A  
; Patent No. 582852  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; APPLICANT: PURCELL, R.H.  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/290.665A  
; FILING DATE: 15-AUG-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: RICHARD W. BORK  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; TELEX: 421792  
; INFORMATION FOR SEQ ID NO: 195:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 191 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; ORIGINAL SOURCE:  
; ORGANISM: homosapiens  
; INDIVIDUAL ISOLATE: Z6  
US-08-290-665A-195

Alignment Scores:  
Pred. No.: 5,43e-49 Length: 191  
Score: 603.00 Matches: 106  
Percent Similarity: 95.65% Conservative: 4  
Best Local Similarity: 92.17% Mismatches: 5  
Query Match: 94.51% Indels: 0  
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-195 (1-191)

Qy 1 ATGACACACTTCTTAACCAACAAAGAAACCAACCAACCAACCGGCACAG 60  
Db 1 MetSerThrAsnProGlyProGlnArgLysThrLysArgAsnThrAsnArgProMet 20  
Qy 61 GACGTTAAGTTCCCAAGGGCGGTCAGATCGTTGGTGAGTTTACGTCTACCGCAGG 120

Db 21 AspVallysPheProGlyGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40  
Qy 121 GGCCCCCAGTTGGGTGGTGGTCAGTCGCGAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 180  
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60  
Qy 181 AGGCGCAACCCATCCCGAGCGCGCCGAAACCGAGGCGCAGGTCTCTGGGCTCAGCCCCGG 240  
Db 61 ArgArgGlnProIleProLysAlaArgSerGluArgSerTrpAlaGlnProGly 80  
Qy 241 TACCTTGGCCCTATATGGAATGACGGCTGCGGTGGGAGGCTGCTCTCTCTCCCG 300  
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
Qy 301 CGCGGCTCTCCCGCTGCTGGGGGCCAAATGACCCCGGCGCAGG 345  
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 13  
PCT-US95-10398-192  
; Sequence 192, Application PC/TUS9510398  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; APPLICANT: PURCELL, R.H.  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/10398  
; FILING DATE: 15-AUG-1995  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/086,428  
; FILING DATE: 29 JUNE 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/290/665  
; FILING DATE: 15 AUGUST 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: RICHARD W. BORK  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; TELEX: 421792  
; INFORMATION FOR SEQ ID NO: 192:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 191 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; ORIGINAL SOURCE:  
; ORGANISM: homosapiens  
; INDIVIDUAL ISOLATE: Z8  
PCT-US95-10398-192

Alignment Scores:  
Pred. No.: 5,43e-49 Length: 191

Score: 603.00 Matches: 106  
Percent Similarity: 95.65% Conservative: 4  
Best Local Similarity: 92.17% Mismatches: 5  
Query Match: 94.51% Indels: 0  
DB: 5 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-192 (1-191)

QY 1 ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCAACCCGCGCACAG 60  
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgSerGlnProMet 20

QY 61 GACGTTAAGTTCCAGCGCGGTCCAGATCGTGTGGAGTTACGTCTACCGCAGG 120  
DB 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArg 40

QY 121 GCGCCCGAGTTGGTGTGGTGCAGTCCGAGACATTCGAGCGGTCCCACTCGCAGT 180  
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

QY 181 AGGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTGGGCTCAGCCCGG 240  
DB 61 ArgArgGlnProLysProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80

QY 241 TACCCCTTGGCCCTATATGGGAATGAGGCTGCGGGTGGCGAGGTCCTGTCTCCCG 300  
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

QY 301 CGCGGCTCTGCGCGTGTGGGGCCCAATGACCCCGCGCAGG 345  
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

## RESULT 14

PCT-US95-10398-193  
; Sequence 193, Application PC/TUS9510398  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; APPLICANT: PURCELL, R.H.  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/10398  
; FILING DATE: 15-AUG-1995  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/086,428  
; FILING DATE: 29 JUNE 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/290/665  
; FILING DATE: 15 AUGUST 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: RICHARD W. BORK  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849

TELEX: 421792  
; INFORMATION FOR SEQ ID NO: 193:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 191 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; ORIGINAL SOURCE:  
; ORGANISM: homosapiens  
; INDIVIDUAL ISOLATE: Z1  
; PCT-US95-10398-193

Alignment Scores:  
Pred. No.: 5,43e-49 Length: 191  
Score: 603.00 Matches: 106  
Percent Similarity: 95.65% Conservative: 4  
Best Local Similarity: 92.17% Mismatches: 5  
Query Match: 94.51% Indels: 0  
DB: 5 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-193 (1-191)

QY 1 ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCCGCGCACAG 60  
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgSerGlnProMet 20

QY 61 GACGTTAAGTTCCAGCGCGGTCCAGATCGTGTGGAGTTACGTCTACCGCAGG 120  
DB 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArg 40

QY 121 GCGCCCGAGTTGGTGTGGTGCAGTCCGAGACATTCGAGCGGTCCCACTCGCAGT 180  
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

QY 181 AGGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTGGGCTCAGCCCGG 240  
DB 61 ArgArgGlnProLysProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80

QY 241 TACCCCTTGGCCCTATATGGGAATGAGGCTGCGGGTGGCGAGGTCCTGTCTCCCG 300  
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

QY 301 CGCGGCTCTGCGCGTGTGGGGCCCAATGACCCCGCGCAGG 345  
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

## RESULT 15

PCT-US95-10398-195  
; Sequence 195, Application PC/TUS9510398  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; APPLICANT: PURCELL, R.H.  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/10398  
; FILING DATE: 15-AUG-1995

```
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-8849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 195:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z6
PCT-US95-10398-195

Alignment Scores:
Pred. No.: 5,43e-49 Length: 191
Score: 603.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 94.51% Indels: 0
DB: 5 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-195 (1-191)

Qy 1 ATGACACACTTCCTAAACACCAAGAAACCAACCAACCAACCAACCCGCGCCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

Qy 61 GACGTTAAGTTCACGCGCGGTCCAGATCGTTGGTGGAGTTTACGTCTACCAACCGCAGG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40

Qy 121 GCGCCCAAGTTGGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

Qy 181 AGGCGCCCAACCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80

Qy 241 TACCCCTTGGCCCTATATGGAATGAGGGCTGCGGGTGGGCGAGGGTGGCTCTGTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

Qy 301 CCGCGCTCTCGCCCTCGTGGGGCCCAATGACCCCGCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
```

Search completed: July 26, 2005, 07:34:49  
Job time : 51 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: July 26, 2005, 07:25:27 ; Search time 209.5 Seconds  
(without alignments)

1284.881 Million cell updates/sec

Title: US-09-873-224B-147

Perfect score: 638

Sequence: 1 atgagcacacttctaacc.....aaatgaccccgccgagga 346

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5

Fgapop 10.0 , Fgapext 0.5

Delop 6.0 , Delext 7.0

Searched: 1741741 seqs, 388932284 residues

Total number of hits satisfying chosen parameters: 3483482

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+ n2p.model -DEV=xlh  
-O=/cgn2\_1/USPTO\_spool/US09873224/runat\_22072005\_171149\_26560/app\_query.fasta\_1.519  
-DB=Published Applications AA -QFMT=fastan -SUFFIX=rapb -MINMATCH=0.1  
-LOOPEL=0 -LOOPEXT=0 -UNITFS=bits -START=1 -END=-1 -MATRIX=blosum62  
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pcr -THR MAX=100  
-THR MIN=0 -ALIGN=15 -MODS=LOCAL -OUTFMT=pcr -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US09873224 @CGN\_1\_124 @runat\_22072005\_171149\_26560  
-NCPU=6 -ICPU=3 -NO MAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100  
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5  
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications AA:

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US10E\_PUBCOMB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/2/pubpaa/US11A\_PUBCOMB.pep.\*
- 20: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*
- 21: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	637	99.8	115	9	US-09-851-138-50
2	637	99.8	115	10	US-09-899-046-148
3	637	99.8	115	10	US-09-878-281-148
4	602	94.4	120	16	US-10-677-956-14
5	602	94.4	189	15	US-10-450-649-9
6	600	94.0	130	14	US-10-268-569-19
7	600	94.0	319	9	US-09-851-138-12
8	600	94.0	319	15	US-10-651-165-199
9	598	93.7	450	15	US-10-651-165-181
10	598	93.7	2894	9	US-09-941-611-23
11	598	93.7	2894	14	US-10-044-995-23
12	598	93.7	2894	17	US-10-822-871-23
13	597	93.6	120	16	US-10-677-956-10
14	597	93.6	151	14	US-10-292-129-14
15	597	93.6	182	9	US-09-929-955-2
16	597	93.6	182	13	US-10-104-966-2
17	597	93.6	182	15	US-10-719-619-2
18	597	93.6	182	16	US-10-817-591-2
19	597	93.6	235	15	US-10-365-620-58
20	597	93.6	235	17	US-10-912-969-60
21	597	93.6	249	15	US-10-365-620-54
22	597	93.6	249	17	US-10-912-969-56
23	597	93.6	319	15	US-10-651-165-217
24	597	93.6	450	15	US-10-651-165-179
25	597	93.6	450	15	US-10-651-165-180
26	597	93.6	459	15	US-10-365-620-60
27	597	93.6	459	17	US-10-912-969-62
28	597	93.6	473	15	US-10-913-171-41
29	597	93.6	473	17	US-10-912-969-58
30	597	93.6	473	17	US-10-913-171-39
31	597	93.6	473	17	US-10-913-171-39
32	597	93.6	1892	17	US-10-612-884-6
33	597	93.6	3011	9	US-09-742-659-4
34	597	93.6	3011	9	US-09-952-572-9
35	597	93.6	3011	9	US-09-929-955-1
36	597	93.6	3011	9	US-09-747-419-20
37	597	93.6	3011	10	US-09-891-894-3
38	597	93.6	3011	13	US-10-104-966-1
39	597	93.6	3011	14	US-10-259-275-20
40	597	93.6	3011	14	US-10-184-150-3
41	597	93.6	3011	15	US-10-328-997-3
42	597	93.6	3011	15	US-10-189-359-14
43	597	93.6	3011	15	US-10-296-734-406
44	597	93.6	3011	15	US-10-719-619-1
45	597	93.6	3011	16	US-10-817-591-1

ALIGNMENTS

RESULT 1  
US-09-851-138-50  
; Sequence 50, Application US/09851138  
; Publication No. US20020183508A1  
; GENERAL INFORMATION:  
; APPLICANT: MAERTENS, GEERT  
; STUYVER, LIEVEN  
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
; AGENTS  
; NUMBER OF SEQUENCES: 207  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ARNOLD, WHITE & DURKEE  
; STREET: P.O. BOX 4433  
; CITY: HOUSTON  
; STATE: TEXAS  
; COUNTRY: USA  
; ZIP: 77210-4433  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word 6.0 / ASCII text output  
CURRENT APPLICATION DATA:  
FILING DATE: 09-May-2001  
APPLICATION NUMBER: US/09/851,138  
FILING DATE: 09-May-2001  
APPLICATION NUMBER: 08/836,075  
FILING DATE: <Unknown>  
APPLICATION NUMBER: EP 94870166.9  
FILING DATE: 21 Oct 1994  
APPLICATION NUMBER: EP 95870076.7  
FILING DATE: 28 Jun 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: KAMMERER, PATRICIA A.  
REGISTRATION NUMBER: 29,775  
REFERENCE/DOCKET NUMBER: INNS:004  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 115 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 50:  
US-09-851-138-50

Alignment Scores:  
Pred. No.: 5,31e-47 Length: 115  
Score: 637.00 Matches: 115  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 99.84% Indels: 0  
DB: 9 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-851-138-50 (1-115)

QY 1 ATGAGCACACTTCTTAAACCAAGAAAGAAACCAAAAGAAACCAACACCCGCGCCACAG 60  
|||  
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAnThrAsn\*\*\*ArgProGln 20  
  
QY 61 GACGTTAAGTTCCAGCGCGCGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGCGAG 120  
|||  
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40  
  
QY 121 GGCCCCAGTTGGGTGTCGTCAGTCGCGAGACTTCCGAGCGGTCGCAACCTCGCAGT 180  
|||  
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60  
  
QY 181 AGGCGCCAAACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCGGGCTCAGCCCGG 240  
|||  
Db 61 ArgArgGlnProLysProArgAlaArgArgThrGluGlyArgSerTrpAlaGlnProGly 80  
  
QY 241 TACCTTTGGCCCCCTATATGGAATGAGGCTCGCGGTGGGAGGCTGCTCTGTCCCG 300  
|||  
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
  
QY 301 CGCGCTCTCGCCCTGTCGCGGCCCAATGACCCCGCGCGAGG 345  
|||  
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

## RESULT 2

US-09-899-046-148  
; Sequence 148, Application US/09899046  
; Publication No. US20030008274A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Microsoft Word 6.0 / ASCII text output  
; CURRENT APPLICATION DATA:  
; FILING DATE: 09/851,138  
; APPLICATION NUMBER: 08/836,075  
; INFORMATION FOR SEQ ID NO: 50:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 115 amino acids  
; TYPE: amino acid

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/899,046  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE:  
INFORMATION FOR SEQ ID NO: 148:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 115 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-899-046-148

Alignment Scores:  
Pred. No.: 5,31e-47 Length: 115  
Score: 637.00 Matches: 115  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 99.84% Indels: 0  
DB: 10 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-899-046-148 (1-115)

QY 1 ATGAGCACACTTCTTAAACCAAGAAAGAAACCAAAAGAAACCAACACCCGCGCCACAG 60  
|||  
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAnThrAsn\*\*\*ArgProGln 20  
  
QY 61 GACGTTAAGTTCCAGCGCGCGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGCGAG 120  
|||  
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40  
  
QY 121 GGCCCCAGTTGGGTGTCGTCAGTCGCGAGACTTCCGAGCGGTCGCAACCTCGCAGT 180  
|||  
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60  
  
QY 181 AGGCGCCAAACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCGGGCTCAGCCCGG 240  
|||  
Db 61 ArgArgGlnProLysProArgAlaArgArgThrGluGlyArgSerTrpAlaGlnProGly 80  
  
QY 241 TACCTTTGGCCCCCTATATGGAATGAGGCTCGCGGTGGGAGGCTGCTCTGTCCCG 300  
|||  
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
  
QY 301 CGCGCTCTCGCCCTGTCGCGGCCCAATGACCCCGCGCGAGG 345  
|||  
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

## RESULT 3

US-09-878-281-148  
; Sequence 148, Application US/09878281  
; Publication No. US20030032005A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; FILING DATE: 09/878,281  
; APPLICATION NUMBER: 08/362,455  
; INFORMATION FOR SEQ ID NO: 148:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 115 amino acids  
; TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-878-281-148

Alignment Scores:  
Pred. No.: 5,31e-47 Length: 115  
Score: 637.00 Matches: 115  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 99.84% Indels: 0  
DB: 10 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281-148 (1-115)

QY 1 ATGACACACCTTCTTAACCAACAAAGAAAACCAACCAACCCGCGCACAG 60  
DB 1 MetSerThrLeuProGlnArgLysThrLysArgAsnThrAsn\*\*\*ArgProGln 20

QY 61 GACGTTAAGTTCCACAGCGCGGTCCAGATCGTTGGTGAGTTTACGTCTACCAACGCGAGG 120  
DB 21 AspValLysPheProGlyGlyGlnileValGlyValTyValLeuProArgArg 40

QY 121 GCCCCCCAGTTGGTGTCAGTCAGTCGCAAGACTTCGAGCGGTCCCAACCTCGCAGT 180  
DB 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60

QY 181 AGGCCCCAACCCATCCACAGGCGCGCGCAACCGAGGCGAGTCTCGGGCTCAGCCCGG 240  
DB 61 ArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80

QY 241 TACCCCTTGGCCCTATATGGAATGAGGCTCGGGGTGGCGAGGCTCTCTGTCCTCTGTC 300  
DB 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

QY 301 CGCGCTCTCGCCCTCGTGTGGGCCCCAAATGACCCCGCGCGAGG 345  
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 4  
US-10-677-956-14  
Sequence 14, Application US/10677956  
Publication No. US20040214163A1  
GENERAL INFORMATION:  
APPLICANT: ZEBEDEE, SUZANNE  
INCHAUPE, GENEVIEVE  
NASOFF, MARC S.  
PRINCE, ALFRED M.  
HELTING, TORSTEN B.  
DREVIN, HAKAN  
NUNN, MICHAEL F.  
TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING RECOMBINANT VIRAL ANTIGENS  
NUMBER OF SEQUENCES: 29  
CORRESPONDENCE ADDRESS:  
ADDRESSER: James P. Hillman  
STREET: 45010 Pawnee Drive  
CITY: Fremont  
STATE: CA  
COUNTRY: USA  
ZIP: 94539  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy Disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 5.0 Dos Txt  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/677,956  
FILING DATE: 01-Oct-2003  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/931,855B  
FILING DATE: Sep 16, 1997  
APPLICATION NUMBER: US08/563,733

FILING DATE: 8-NOV-1995  
APPLICATION NUMBER: US08/049,531  
FILING DATE: 20-APR-1993  
APPLICATION NUMBER: US07/344,237  
FILING DATE: 26-APR-1989  
APPLICATION NUMBER: US07/191,229  
FILING DATE: 06-MAY-1988  
APPLICATION NUMBER: US07/206,499  
FILING DATE: 13-JUN-1988  
APPLICATION NUMBER: US07/258,016  
FILING DATE: 14-OCT-1988  
APPLICATION NUMBER: US08/272,271  
FILING DATE: 8-JUL-1994  
APPLICATION NUMBER: US07/616,369  
FILING DATE: 21-NOV-1990  
APPLICATION NUMBER: US07/573,643  
FILING DATE: 27-AUG-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: James P. Hillman Esq.  
REGISTRATION NUMBER: 29748  
REFERENCE/DOCKET NUMBER: 55467/69  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 651 3991  
TELEFAX: (510) 651 5991  
TELEX: <Unknown>  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 120 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
US-10-677-956-14

Alignment Scores:  
Pred. No.: 5,93e-44 Length: 120  
Score: 602.00 Matches: 106  
Percent Similarity: 95.65% Conservative: 4  
Best Local Similarity: 92.17% Mismatches: 5  
Query Match: 94.36% Indels: 0  
DB: 16 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-677-956-14 (1-120)

QY 1 ATGACACACCTTCTTAACCAACAAAGAAAACCAACCAACCCGCGCACAG 60  
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20

QY 61 GACGTTAAGTTCCACAGCGCGGTCCAGATCGTTGGTGAGTTTACGTCTACCAACGCGAGG 120  
DB 21 AspValLysPheProGlyGlyGlnileValGlyValTyValLeuProArgArg 40

QY 121 GCGCCCCAGTTGGTGTCAGTCAGTCGCAAGACTTCGAGCGGTCCCAACCTCGCAGT 180  
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

QY 181 AGGCGCCAAACCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTCGGGCTCAGCCCGG 240  
DB 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80

QY 241 TACCCCTTGGCCCTATATGGAATGAGGCTCGGGGTGGCGAGGCTCTCTGTCCTCTGTC 300  
DB 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

QY 301 CGCGCTCTCGCCCTCGTGTGGGCCCCAAATGACCCCGCGCGAGG 345  
DB 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 115

RESULT 5  
US-10-450-649-9  
Sequence 9, Application US/10450649  
Publication No. US20040052818A1  
GENERAL INFORMATION:

APPLICANT: Heinz, Franz X.  
APPLICANT: Mandl, Christian  
TITLE OF INVENTION: ATTENUATED LIVE VACCINE  
FILE REFERENCE: U 014666-0  
CURRENT APPLICATION NUMBER: US/10/450,649  
CURRENT FILING DATE: 2003-06-16  
PRIOR APPLICATION NUMBER: PCT/AT02/00046  
PRIOR FILING DATE: 2002-02-11  
PRIOR APPLICATION NUMBER: A 272/2001 AT  
PRIOR FILING DATE: 2001-02-21  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 9  
TYPE: PRT  
ORGANISM: Hepatitis C Virus 3  
US-10-450-649-9

Alignment Scores:  
Pred. No.: 6, 1e-44 Length: 189  
Score: 602.00 Matches: 106  
Percent Similarity: 96.49% Conservative: 4  
Best Local Similarity: 92.98% Mismatches: 4  
Query Match: 94.36% Indels: 0  
DB: 15 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-450-649-9 (1-189)

QY 4 AGCACACTTCTTAACCAAGAAAAACCAAGAAAAACCAACCCGCGCCACAGGAC 63  
DB 1 SerThrLeuProLysProGlnArgLysThrLysArgAsnThrLeuArgArgProGlnAsp 20  
QY 64 GTTAAGTTCCAGCGCGGGCGGTTCAGTCTGGTGGAGTTACGTCTACCAAGCGGGC 123  
DB 21 ValLysPheProGlyGlyGlyGlnLeuValGlyGlyValTyValLeuProArgArgGly 40  
QY 124 CCCAGTTGGGTGTCGTGCAGTGGCGCAAGACTCCGAGCGGTCCCAACCTCGCAGTAGG 183  
DB 41 ProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGlyArg 60  
QY 184 CGCCAAACCCATCCCGAGCGCGCGCGAACCAGGAGGSCAGGTCTGGGCTTCAGCCCGGGTAC 243  
DB 61 ArgGlnProLeuProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGlyTy 80  
QY 244 CTTGGCCCTTATATGGAAATGAGGCTCGCGGTGGGCGAGGTGGCTCTCTCCCGCGC 303  
DB 81 ProTrpProLeuTyxGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerProArg 100  
QY 304 GGTCTCTCGCGTCTGGGGCCCAATGACCCCGGCGCAGG 345  
DB 101 GlySerArgProSerTrpGlyProAsnAspProArgArg 114

RESULT 6  
US-10-268-569-19  
Sequence 19, Application US/10268569  
Publication No. US20030152965A1  
GENERAL INFORMATION:  
APPLICANT: Ortho-Clinical Diagnostics, Inc.  
TITLE OF INVENTION: HCV Core Protein Sequences  
FILE REFERENCE: CDS-0288  
CURRENT APPLICATION NUMBER: US/10/268,569  
CURRENT FILING DATE: 2002-10-10  
PRIOR APPLICATION NUMBER: 60/347,303  
PRIOR FILING DATE: 2001-11-11  
NUMBER OF SEQ ID NOS: 19  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 19  
LENGTH: 130  
TYPE: PRT  
ORGANISM: Hepatitis C virus  
US-10-268-569-19

Alignment Scores:

Pred. No.: 8, 9e-44 Length: 130  
Score: 600.00 Matches: 106  
Percent Similarity: 94.78% Conservative: 3  
Best Local Similarity: 92.17% Mismatches: 6  
Query Match: 94.04% Indels: 0  
DB: 14 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-268-569-19 (1-130)

QY 1 ATGAGCACACTTCTTAACCAAGAAAAACCAAGAAAAACCAACCCGCGCCACAG 60  
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20  
QY 61 GACGTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTACCAAGCAGG 120  
DB 21 AspValLysPheProGlyGlyGlnLeuValGlyGlyValTyValLeuLeuProArg 40  
QY 121 GGCCCCCAGTTGGGTGTCGTGCAGTGCAGCAAGACTTCCGAGCGGTCCCAACCTCGCAGT 180  
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60  
QY 181 AGGCGCAACCCATCCCGAGCGCGCGCGAACCAGGAGGCGAGTCTGGGCTCAGCCCGG 240  
DB 61 ArgArgGlnProLeuProLysAlaArgArgProGluGlyArgSerTrpAlaGlnProGly 80  
QY 241 TACCTTTGGCCCTATATGGAAATGAGGCTGCGGGTGGCGAGGTGGCTCTCTCCCGC 300  
DB 81 TyrProTrpProLeuTyxGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
QY 301 CGCGGCTCTCGCGGTCTGGGGCCCAATGACCCCGGCGCAGG 345  
DB 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115

RESULT 7

US-09-851-138-12  
Sequence 12, Application US/09851138  
Publication No. US20020183508A1  
GENERAL INFORMATION:  
APPLICANT: MAERTENS, GEERT  
STUYVER, LIEVEN  
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
AGENTS  
NUMBER OF SEQUENCES: 207  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ARNOLD, WHITE & DURKEE  
STREET: P.O. BOX 4433  
CITY: HOUSTON  
STATE: TEXAS  
COUNTRY: USA  
ZIP: 77210-4433  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word 6.0 / ASCII text output  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/851,138  
FILING DATE: 09-May-2001  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/836,075  
FILING DATE: <Unknown>  
APPLICATION NUMBER: EP 94870166.9  
FILING DATE: 21 Oct 1994  
APPLICATION NUMBER: EP 95870076.7  
FILING DATE: 28 Jun 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: KAMMERER, PATRICIA A.  
REGISTRATION NUMBER: 29,775  
REFERENCE/DOCKET NUMBER: INNS:004  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 319 amino acids



```

; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-851-138-12
Alignment Scores:
Pred. No.: 9,39e-44 Length: 319
Score: 600.00 Matches: 106
Percent Similarity: 94.78% Conservative: 3
Best Local Similarity: 92.17% Mismatches: 6
Query Match: 94.04% Indels: 0
DB: 9 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-851-138-12 (1-319)
QY 1 ATGAGCACACTTCTTAACCAAGAAAAACCAAAACCAACCAACCCGCGCACAG 60
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAAGTTCCACGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
DB 21 AspValLysPheProGlyGlyGlnLeuValGlyValTyrLeuLeuProArgArg 40
QY 121 GCGCCCGGCTGGGTGTCGTCAGTCGCGCAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCCCAACCATCCACGAGCGCGCGCAACCGAGGCGAGTCTCGGGCTCAGCCCGGG 240
DB 61 ArgArgGlnProIleProLysAlaArgProGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTCGCGCCCTATATGGGAATGAGGCTGCGGTGGGCGAGGTGCTCTGTCGCCG 300
DB 81 TyrProTrpProLeuTyrAlaAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCTGTCGGGGCCAAATGACCCCGCGCGCAGG 345
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
```

RESULT 8

```

US-10-651-165-199
; Sequence 199, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 199
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (152)..(152)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (159)..(159)
; OTHER INFORMATION: Xaa is any amino acid
```

```

; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (163)..(163)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (164)..(164)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (165)..(165)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (166)..(166)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (167)..(167)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (170)..(170)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (174)..(174)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (175)..(175)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (180)..(180)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (226)..(226)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (317)..(317)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (318)..(318)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (319)..(319)
; OTHER INFORMATION: Xaa is any amino acid
US-10-651-165-199
```

```

Alignment Scores:
Pred. No.: 9,39e-44 Length: 319
Score: 600.00 Matches: 106
Percent Similarity: 94.78% Conservative: 3
Best Local Similarity: 92.17% Mismatches: 6
Query Match: 94.04% Indels: 0
DB: 15 Gaps: 0
```

US-09-873-224B-147 (1-346) x US-10-651-165-199 (1-319)

```

QY 1 ATGAGCACACTTCTTAACCAAGAAAAACCAAAACCAACCAACCCGCGCACAG 60
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAAGTTCCACGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
DB 21 AspValLysPheProGlyGlyGlnLeuValGlyValTyrLeuLeuProArgArg 40
QY 121 GCGCCCGGCTGGGTGTCGTCAGTCGCGCAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180
```

```
Db 41 GlyProArgLeuGlyValArgAlaThrArgIysThrSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCCAAACCATCCCGAGCGCGCGAACCAGGCGCAGGTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProIleProIleProIleProIleProIleProIleProIle 80
QY 241 TACCCCTTGGCCCTATATGGGAATGAGGCTGCGGTGGCGGAGGTGCTCTGTCCCG 300
Db 81 TyrProIleProLeuTyAlaAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCGCCCTCGTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTipGlyProAsnAspProArgArgArg 115

RESULT 9
US-10-651-165-181
; Sequence 181, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; PRIOR FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 181
; LENGTH: 450
; TYPE: PRP
; ORGANISM: hepatitis C virus
US-10-651-165-181

Alignment Scores:
Pred. No.: 1,43e-43 Length: 450
Score: 598.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 93.73% Indels: 0
DB: 15 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-181 (1-450)
QY 1 ATGAGCACACTTCCTAAACCAAGAAAGAAAAACCAAAAGAAACACCAACCCGCGCACAG 60
Db 1 MetSerThrIleProLysProGlnArgIysThrIysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAGTTCACAGCGCGCGTCAGATCGTTGGTGGAGTTACGTCTACCGCAGG 120
Db 21 AspValIysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArgArg 40
QY 121 GGCCCGCCAGTGGGTGTGGTGCAGTCGCGCAGACTTCGAGCGGTCCGAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgIysThrSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCCAAACCATCCCGAGCGCGCGAACCAGGCGCAGGTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysValArgArgProGluGlyArgThrTrpAlaGlnProGly 80
QY 241 TACCCCTTGGCCCTATATGGGAATGAGGCTGCGGTGGCGGAGGTGCTCTGTCCCG 300
Db 81 TyrProIleProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCGCCCTCGTGGGGCCCAATGACCCCGCGCAGG 345
```

```
Db 101 ArgGlySerArgProSerTipGlyProThrAspProArgArgArg 115

RESULT 10
US-09-941-611-23
; Sequence 23, Application US/09941611
; Patent No. US20020106640A1
; GENERAL INFORMATION:
; APPLICANT: DELEYS, ROBERT J
; APPLICANT: POLLET, DIRK
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF
; ANTIBODIES TO HEPATITIS C VIRUS
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/941,611
; FILING DATE: 30-Aug-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/391,671
; FILING DATE: 1995-02-21
; APPLICATION NUMBER: WO PCT/EP91/02409
; FILING DATE: 13-DEC-1991
; APPLICATION NUMBER: EP 90124241.2
; FILING DATE: 14-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 7038164000
; TELEFAX: 7038164100
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2894 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-09-941-611-23

Alignment Scores:
Pred. No.: 1.6e-43 Length: 2894
Score: 598.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 93.73% Indels: 0
DB: 9 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-941-611-23 (1-2894)
QY 1 ATGAGCACACTTCCTAAACCAAGAAAGAAAAACCAAAAGAAACACCAACCCGCGCACAG 60
Db 1 MetSerThrIleProLysProGlnArgIysThrIysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAGTTCACAGCGCGGTGAGATCGTTGGTGGAGTTACGTCTACCGCAGG 120
```



```
/ FILING DATE: 14-DEC-1990
/ ATTORNEY/AGENT INFORMATION:
/ NAME: SADOFF, B.J.
/ REGISTRATION NUMBER: 36,663
/ REFERENCE/DOCKET NUMBER: 1487-5
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 7038164000
/ TELEFAX: 7038164100
/ INFORMATION FOR SEQ ID NO: 23:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2894 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-10-822-871-23

Alignment Scores:
Pred. No.: 1.6e-43 Length: 2894
Score: 598.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 93.73% Indels: 0
DB: 17 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-822-871-23 (1-2894)
QY 1 ATGACACACATTCCTAAACCAAGAAAAACCAAAAGAAAAACCAACCCGCGCACAG 60
DB 1 MetSerThrIleProIleProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTCTACCAACGCGAG 120
DB 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValLysLeuLeuProArgArg 40
QY 121 GCGCCCAAGTTGGGTGCGTGCAGTGCAGAACTTCCGAGCGGTCCGCAACCTCGCAGT 180
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGGCCCAACCATCCAGCGCGCGCGAAGCCAGGCGAGTCTCGGCTCAGCCCGGG 240
DB 61 ArgArgGlnProIleProLysValArgArgProGluGlyArgThrTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGGCGAGGTGCTCTGTCCCG 300
DB 81 TyrProTrpProLeuTyrglyAsnGluGlyCysGlyTAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCGCCCTCGTGGGGCCCAATGACCCCGCGCGAGG 345
DB 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 115

RESULT 13
US-10-677-956-10
/ Sequence 10, Application US/10677956
/ Publication No. US20040214163A1
/ GENERAL INFORMATION:
/ APPLICANT: ZEBEDEE, SUZANNE
/ INCHAUSPE, GENEVIEVE
/ NASOFF, MARC S.
/ PRINCE, ALFRED M.
/ HELTING, TORSTEN B.
/ DREVIN, HAKAN
/ NUNN, MICHAEL F.
/ TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
/ RECOMBINANT VIRAL ANTIGENS
/ NUMBER OF SEQUENCES: 29
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: James P. Hillman
/ STREET: 45010 Pawnee Drive
/ CITY: Fremont
```

```

; APPLICANT: Catharina Hultgren
; TITLE OF INVENTION: VACCINES CONTAINING RIBAVIRIN AND
; FILE REFERENCE: TRIPEP.23AUS2
; CURRENT APPLICATION NUMBER: US/09/929,955
; CURRENT FILING DATE: 2001-08-15
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: 60/225,175
; PRIOR FILING DATE: 2000-08-29
; PRIOR APPLICATION NUMBER: 60/225,767
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 182
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hepatitis C virus core protein sequence
US-09-929-955-2

```

# RESULT 14

```

US-10-292-129-14
; Sequence 14, Application US/10292129
; Publication No. US20030148267A1
; GENERAL INFORMATION:
; APPLICANT: Schmidt, Emmett Vance
; APPLICANT: Chung, Raymond Taeyong
; TITLE OF INVENTION: SCREENING ASSAY FOR HEPATITIS C VIRUS
; FILE REFERENCE: 00786-539001
; CURRENT APPLICATION NUMBER: US/10/292,129
; CURRENT FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: US 60/345,405
; PRIOR FILING DATE: 2001-11-09
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-292-129-14

```

```

Alignment Scores:
Pred. No.: 1.64e-43 Length: 151
Score: 597.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 93.57% Indels: 0
DB: 14 Gaps: 0

```

US-09-873-224B-147 (1-346) x US-10-292-129-14 (1-151)

```

QY 1 ATGAGCACACTTCTTAAACCAACAAAGAAAAACCAACCAACCCGCGCCACAG 60
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAAGTTCACGCGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACACGCGAG 120
DB 21 AspValLysPheProGlyGlyGlnIleValGlyValTyLeuLeuProArg 40
QY 121 GCGCCCGCAGTTGGGTGCGTCCAGTCCGACAGCTTCGAGCGGTCCGCAACTCGCAGT 180
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
DB 61 ArgArgGlnProLysProLysAlaArgArgProGluGlyArgThrTipAlaGlnProGly 80
QY 241 TACCCCTTGGCCCTATATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTCTGTCCCGG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCGCTCGTGGGGCCCAATGACCCCGCGCGAGG 345
DB 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115

```

# RESULT 15

```

US-09-929-955-2
; Sequence 2, Application US/09929955
; Patent No. US2002013670A1
; GENERAL INFORMATION:
; APPLICANT: Matti Sallberg

```

```

; APPLICANT: Catharina Hultgren
; TITLE OF INVENTION: VACCINES CONTAINING RIBAVIRIN AND
; FILE REFERENCE: TRIPEP.23AUS2
; CURRENT APPLICATION NUMBER: US/09/929,955
; CURRENT FILING DATE: 2001-08-15
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: 60/225,175
; PRIOR FILING DATE: 2000-08-29
; PRIOR APPLICATION NUMBER: 60/225,767
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 182
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hepatitis C virus core protein sequence
US-09-929-955-2

```

```

Alignment Scores:
Pred. No.: 1.66e-43 Length: 182
Score: 597.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 93.57% Indels: 0
DB: 9 Gaps: 0

```

US-09-873-224B-147 (1-346) x US-09-929-955-2 (1-182)

```

QY 1 ATGAGCACACTTCTTAAACCAACAAAGAAAAACCAACCAACCCGCGCCACAG 60
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAAGTTCACGCGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACACGCGAG 120
DB 21 AspValLysPheProGlyGlyGlnIleValGlyValTyLeuLeuProArg 40
QY 121 GCGCCCGCAGTTGGGTGCGTCCAGTCCGACAGCTTCGAGCGGTCCGCAACTCGCAGT 180
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
DB 61 ArgArgGlnProLysProLysAlaArgArgProGluGlyArgThrTipAlaGlnProGly 80
QY 241 TACCCCTTGGCCCTATATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTCTGTCCCGG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCGCTCGTGGGGCCCAATGACCCCGCGCGAGG 345
DB 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115

```

Search completed: July 26, 2005, 08:06:51  
Job time : 212.5 secs

**THIS PAGE BLANK (USPTO)**